HCD-EP303

SERVICE MANUAL

Ver 1.1 2002. 11

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model

HCD-EP303 is the amplifier, CD player, tape deck and tuner section in CMT-EP303.

CD SECTION	Model Name Using Similar Mechanism	HCD-EP30/EP40
	CD Mechanism Type	CS-21SC-1280
TAPE DECK SECTION	Model Name Using Similar Mechanism	HCD-EP30/EP40
	Tape Transport Mechanism Type	TCM125-2

SPECIFICATIONS

Amplifier section

AUDIO POWER SPECIFICATIONS: (U.S.A. model only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

with 4 Ω loads both channels driven, from 120 - 10,000 Hz; rates 6 W per channel minimum RMS power, with no more than 10% total harmonic distortion from 250 mW to rated output.

Canadian model:

Continuous RMS power output (reference) 6 + 6 W (4 Ω at 1 kHz, 10% THD)

European model:

DIN power output (rated) 4.5 + 4.5 W (4 Ω at 1 kHz, DIN)
Continuous RMS power output (reference) 6 + 6 W (4 Ω at 1 kHz, 10% THD)
Music power output (reference) 13 + 13 W

Other model:

The following measured at AC 230 V or AC 120 V, 50/60 Hz
DIN power output (rated) 4.5 + 4.5 W (4 Ω at 1 kHz, DIN)
Continuous RMS power output (reference) 6 + 6 W (4 Ω at 1 kHz, 10% THD)

Outputs
PHONES: (stereo mini jack) Accepts headphones of 8 Ω or more
SPEAKER: Accepts impedance of 4 to 16 Ω

CD player section

System: Compact disc and digital audio system
Laser: Semiconductor laser (λ=780 nm) Emission duration: continuous
Frequency response: 20 Hz - 20 kHz (±0.5 dB)

Tape player section

Recording system: 4-track 2-channel stereo
Frequency response: 50 - 13 000 Hz (±3 dB), using Sony TYPE I cassette

— Continued on next page —

COMPACT DISC DECK RECEIVER

9-873-621-02
2002K1600-1
© 2002.11

Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna	FM lead antenna
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
Pan-American model:	530 - 1 710 kHz (with the interval set at 10 kHz) 531 - 1 602 kHz (with the interval set at 9 kHz)
European model:	531 -1 602 kHz (with the interval set at 9 kHz)
Other models:	531 - 1 602 kHz (with the interval set at 9 kHz) 530 - 1 710 kHz (with the interval set at 10 kHz)
Antenna	Built-in ferrite bar antenna
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50/60 Hz
Australian model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC, 60 Hz
Argentine model:	220 - 230 V AC, 50/60 Hz
Other models:	230 V AC, 50/60 Hz
Power consumption	
U.S.A. model:	25 W
Canadian model:	25 W
European model:	30 W 0.5 W (in the standby mode)
Other models:	30 W
Dimensions (w/h/d):	Approx. 145 × 240 × 252 mm
Mass:	Approx. 2.9 kg

Design and specifications are subject to change without notice.

TABLE OF CONTENTS

1. SERVICING NOTES ····· 4

2. GENERAL ····· 5

3. DISASSEMBLY ····· 7
- 3-1. Front Panel Section ····· 7
- 3-2. MAIN Board ····· 8
- 3-3. Tape Mechanism Deck (TCM125-2) ····· 8
- 3-4. POWER Board, Power Transformer ····· 9
- 3-5. DISPLAY Board, HEADPHONE Board ····· 9
- 3-6. CD Cabinet Section ····· 10
- 3-7. CD Mechanism Deck (CS-21SC-1280) ····· 10
- 3-8. Cassette Lid ····· 11

4. MECHANICAL ADJUSTMENTS ····· 12

5. ELECTRICAL ADJUSTMENTS ····· 12

6. DIAGRAMS ····· 16
- 6-1. Circuit Boards Location ····· 16
- 6-2. Block Diagrams ····· 18
- 6-3. Printed Wiring Board MAIN Section ····· 21
- 6-4. Schematic Diagram MIAN Section (1/2) ····· 22
- 6-5. Schematic Diagram MIAN Section (2/2) ····· 23
- 6-6. Printed Wiring Board CASSETTE Section ····· 24
- 6-7. Schematic Diagram CASSETTE Section ····· 24
- 6-8. Printed Wiring Board DISPLAY Section ····· 25
- 6-9. Schematic Diagram DISPLAY Section ····· 26
- 6-10. Printed Wiring Board POWER Section ····· 27
- 6-11. Schematic Diagram POWER Section ····· 28
- 6-12. IC Pin Function Description ····· 31

7. EXPLODED VIEWS ····· 32
- 7-1. Cabinet Section ····· 32
- 7-2. Front Panel Section -1 ····· 33
- 7-3. Front Panel Section -2 ····· 34
- 7-4. CD Cabinet Section ····· 35

8. ELECTRICAL PARTS LIST ····· 36

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

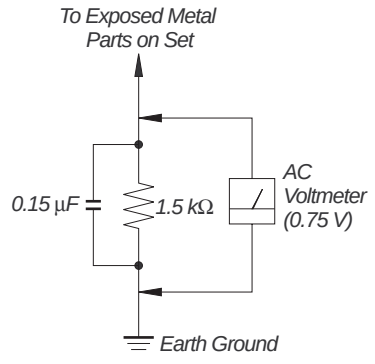
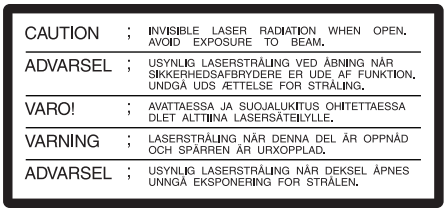


Fig. A. Using an AC voltmeter to check AC leakage.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.


CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.
ADVARSEL ; USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDS ÆTTELSE FOR STRÅLING.
VARO! ; AVATTAESSA JA SUOJALUKITUS OHITETTAESSA DLET ALTTIINA LASERSÄTEILYLLE.
VARNING ; LASERSTRÅLING NÄR DENNA DEL ÄR OPPNÅD OCH SPÄRREN ÄR URXOPPLAD.
ADVARSEL ; USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES UNNGÅ EKSPONERING FOR STRÅLEN.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

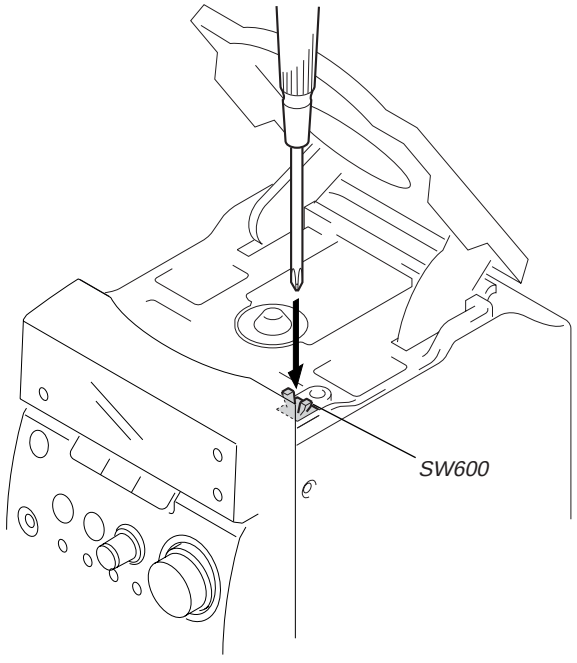
The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

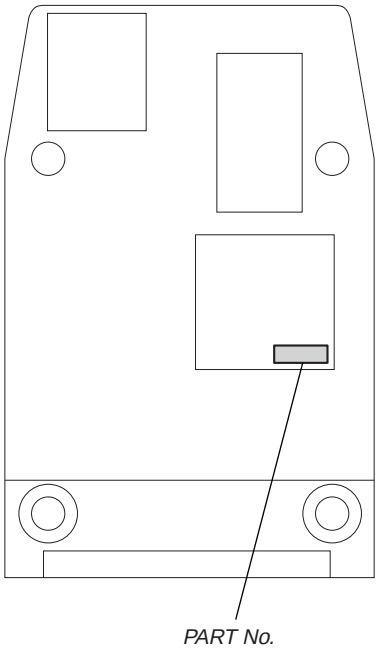
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Press the I/⏻ button to the power ON with no disc inserted and press the CD button.
2. Open the lid for CD.
3. Turn on SW600 as following figure.
4. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down five times for the focus search.



• MODEL IDENTIFICATION
– Bottom View –

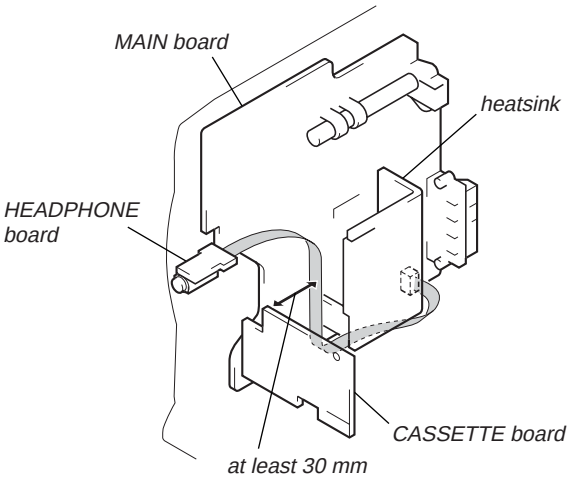


MODEL	PART No.
AEP, UK models	4-235-972-0□
EXCEPT AEP, UK models	4-241-498-0□

TO PREVENT 'TAPE OSCILLATION SOUND AT VOLUME' MAXIMUM SETTING (W/O TAPE)

Headphone wire dressing:

a.) Draw the wire from Main board to Headphone board along the bottom side of heatsink.
b.) The wire must be kept away from the top side of Cassette board at least 30 mm.



SECTION 2
GENERAL

This section is extracted from instruction manual.

Main unit

ALPHABETICAL ORDER

A – P

Cassette compartment 13 (12)
CD 4 (8, 9, 13)
Display Window 5 8, 9, 10)
ENTER/PGM 20 8, 9, 10, 14)
MEGA BASS 8 (14)
MUSIC MENU 9 (14)
PHONES jack 22
PRESET +/– 12 (10, 11)

R – Z

Remote sensor 10
REPEAT 2 (8)
SHUFFLE 21 (8)
TAPE 3 (12)
TIMER indicator 1 (15)
TUNER 6 (10, 11, 13)
TUNER MEM 20 (10)
TUNING +/– 23 (10, 11)
VOLUME control 11

BUTTON DESCRIPTIONS

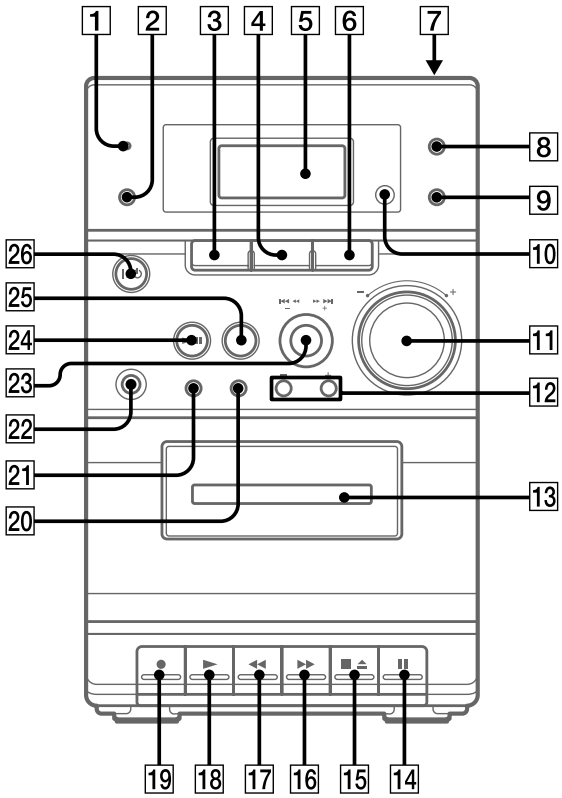
I/⏻ (power) 26 (6)

CD

⏮◀◀ /▶▶⏭ (go back/go forward) 23 (8, 9)
▶II (play/pause) 24 (8, 9)
⏏ PUSH OPEN/CLOSE 7 (8)
■ (stop) 25 (8)

TAPE

▶▶ (fast forward) 16 (12)
II (pause) 14 (12, 13)
▶ (play) 18 (12)
● (recording) 19 (13)
◀◀ (rewind) 17 (12)
■⏏ (stop/eject) 15 (12, 13)



Remote control

ALPHABETICAL ORDER

A – P

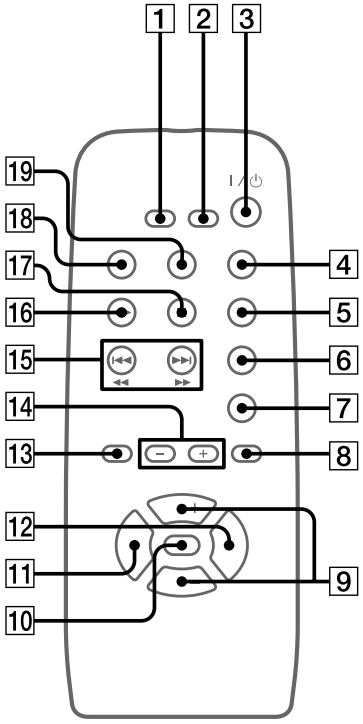
CD/REMAIN 19 (7, 8, 9, 13, 15, 16)
CLOCK/TIMER + 8 (7, 14, 15)
CLOCK/TIMER – 13 (7, 14, 15)
CLOCK/TIMER/SLEEP SET 1 (7, 14, 15)
MEGA BASS 12 (14)
MUSIC MENU 11 (14)
MUTING 10 (14)
PRESET +/– 14 (10, 11)

R – Z

REPEAT 6 (8)
SHUFFLE 5 (8)
TAPE 18 (12)
TIMER ON/OFF 2 (15)
TUNER/BAND 4 (10, 11, 13)
TUNER MEM/ENTER/PGM 7 (7, 9, 10, 14, 15)
TUNING + 8 (10, 11)
TUNING – 13 (10, 11)
VOL (volume) +/– 9

BUTTON DESCRIPTIONS

◀◀ (rewind) ▶▶ (fast forward) 15 (8)
I◀◀ (go back) ▶▶I (go forward) 15 (8, 9)
▶II (play/pause) 16 (8, 9)
I/⏻ (power) 3 (6)
■ (stop) 17 (8, 9, 12)



Setting the clock

1 **Turn on the system.**

2 **Press CLOCK/TIMER/SLEEP SET on the remote.**

3 **Press CLOCK/TIMER + or – on the remote repeatedly to set the clock.**

4 **Press TUNER MEM/ENTER/PGM on the remote.**

The clock starts working.

To adjust the clock

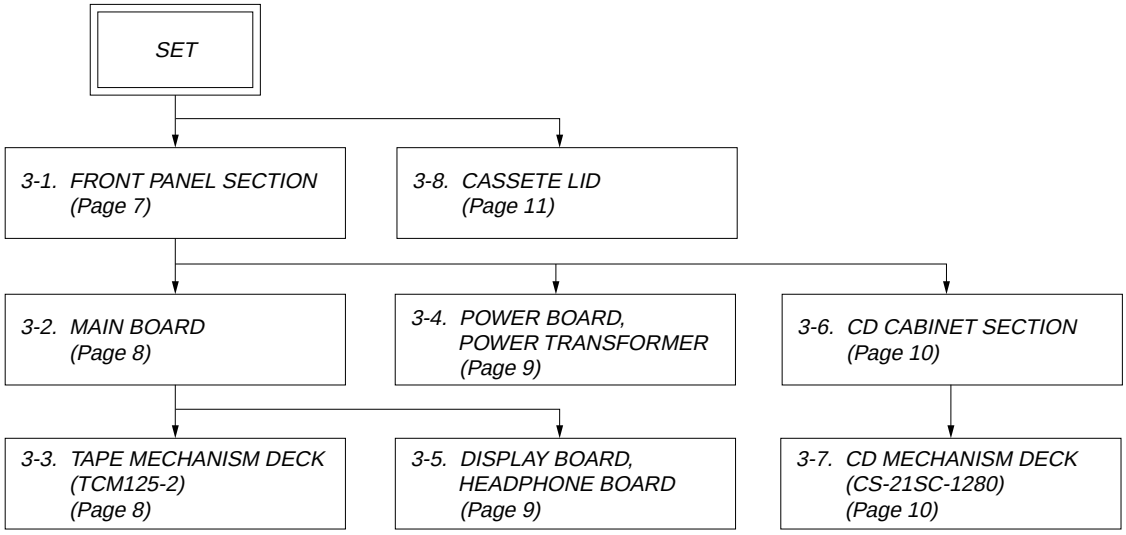
Perform from step 2.

Note

The clock settings are canceled when you disconnect the power cord or if a power failure occurs.

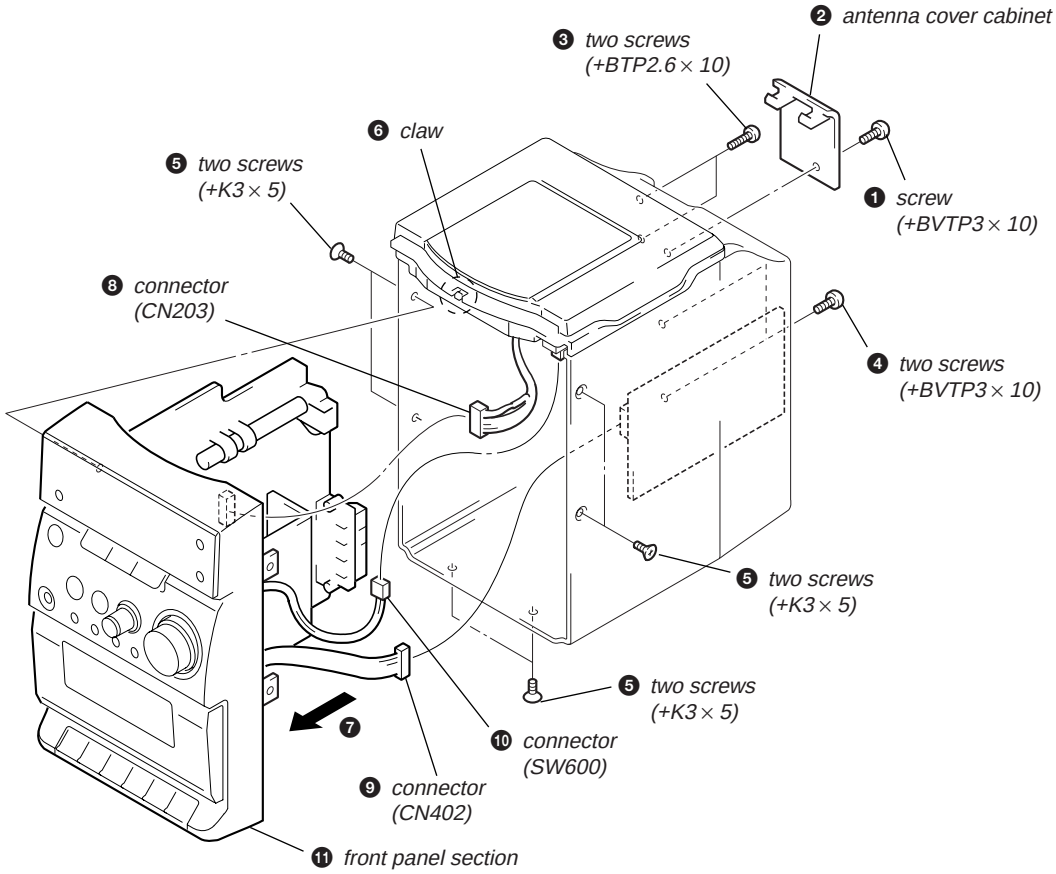
SECTION 3
DISASSEMBLY

• The equipment can be removed using the following procedure.

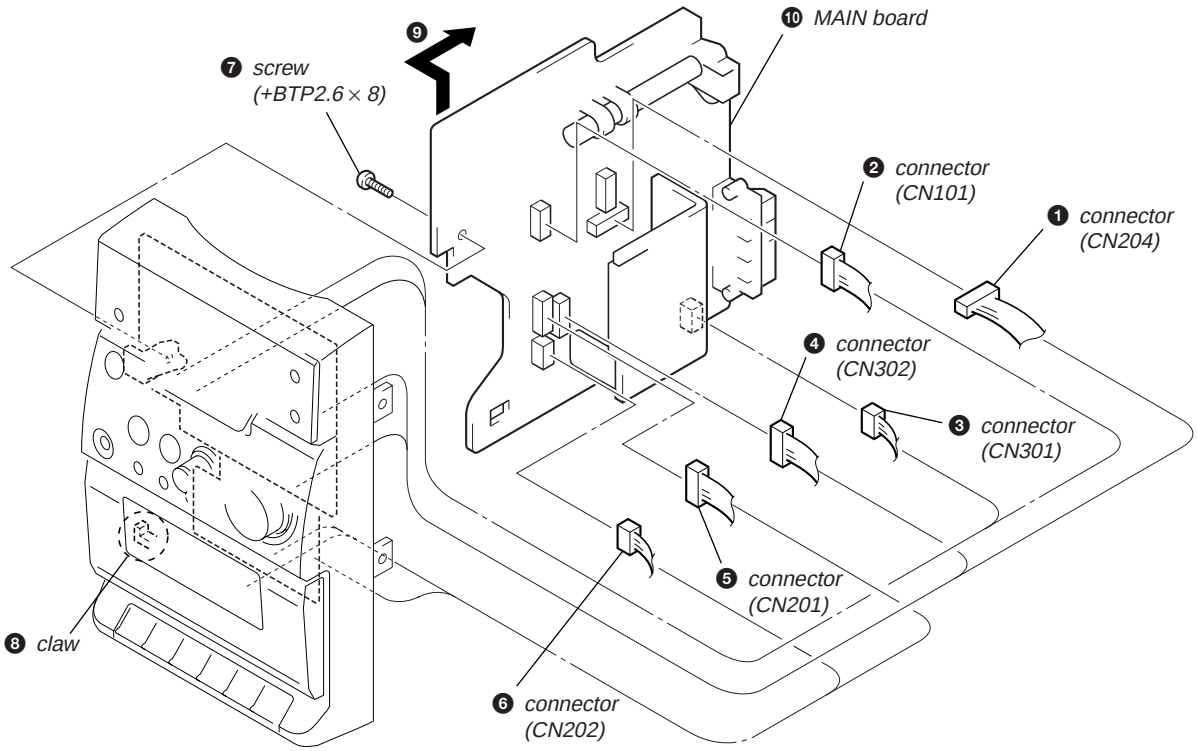

SET
3-1. FRONT PANEL SECTION (Page 7)
3-8. CASSETE LID (Page 11)
3-2. MAIN BOARD (Page 8)
3-4. POWER BOARD, POWER TRANSFORMER (Page 9)
3-6. CD CABINET SECTION (Page 10)
3-3. TAPE MECHANISM DECK (TCM125-2) (Page 8)
3-5. DISPLAY BOARD, HEADPHONE BOARD (Page 9)
3-7. CD MECHANISM DECK (CS-21SC-1280) (Page 10)

Note : Follow the disassembly procedure in the numerical order given.

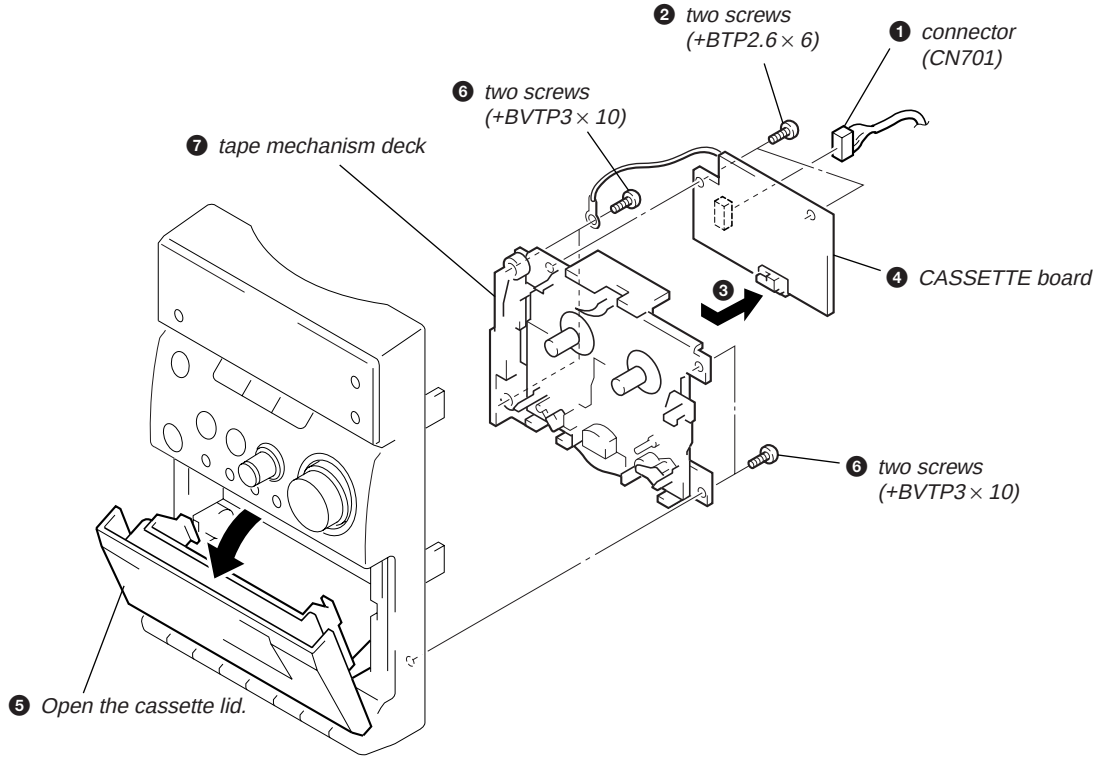
3-1. Front Panel Section



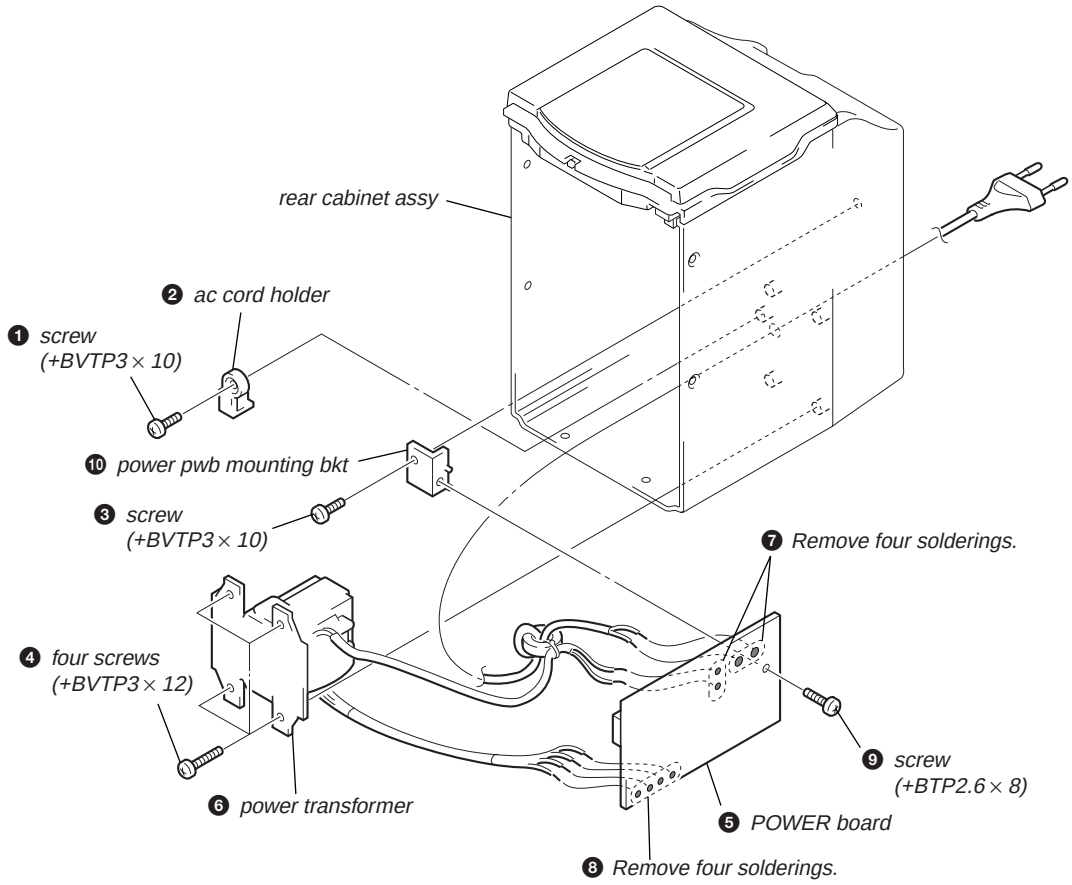
3-2. MAIN Board



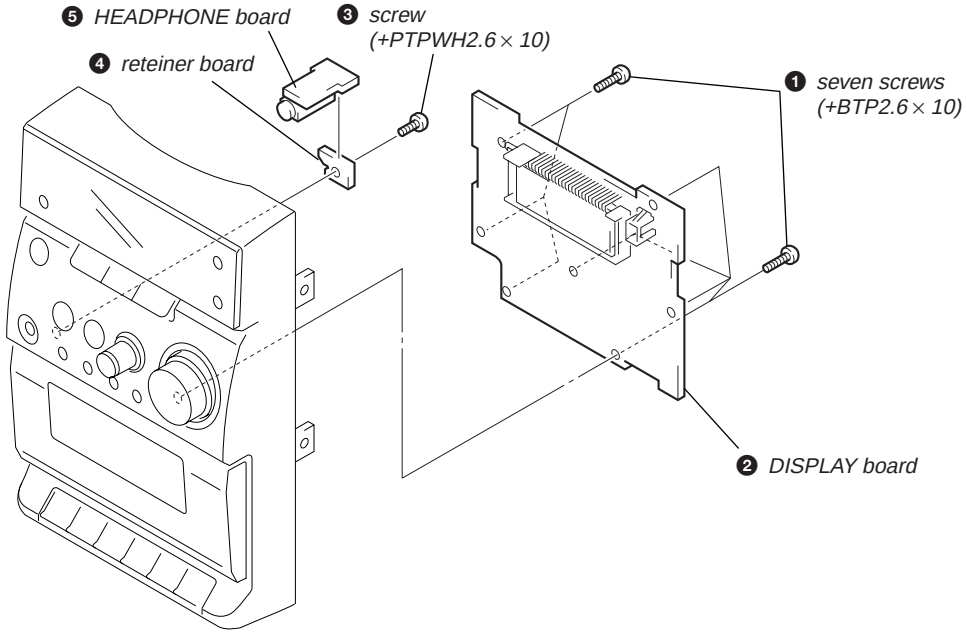
3-3. Tape Mechanism Deck (TCM125-2)



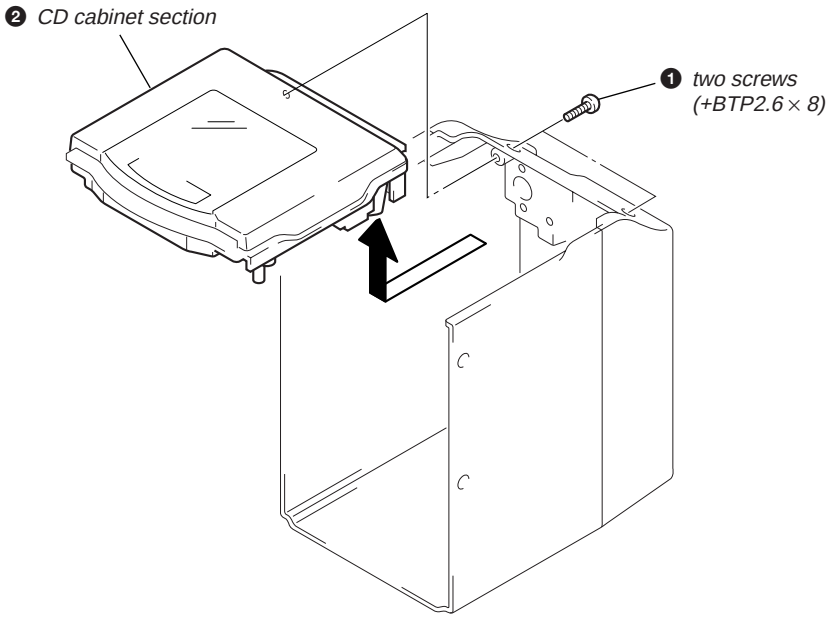
3-4. POWER Board, Power Transformer



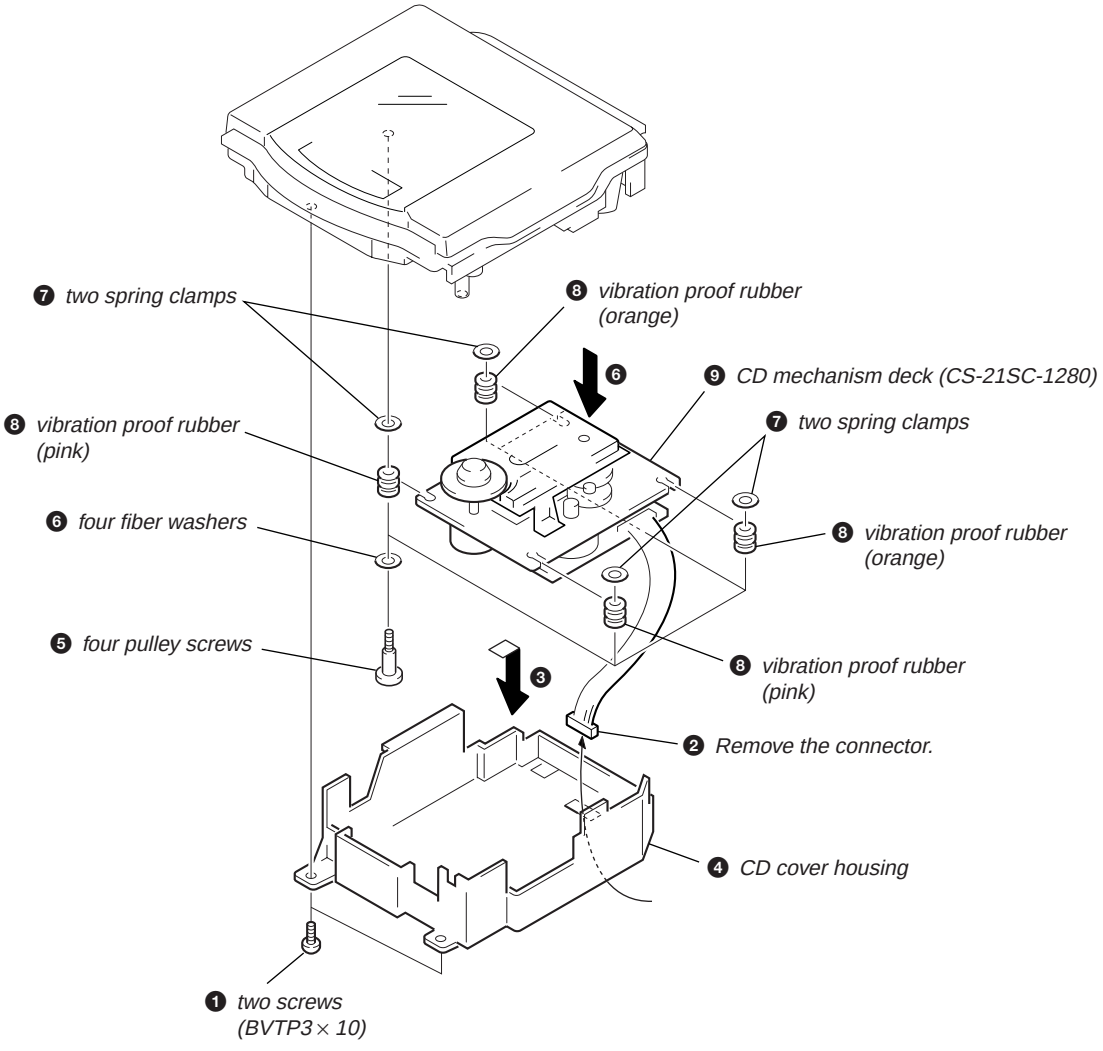
3-5. DISPLAY Board, HEADPHONE Board



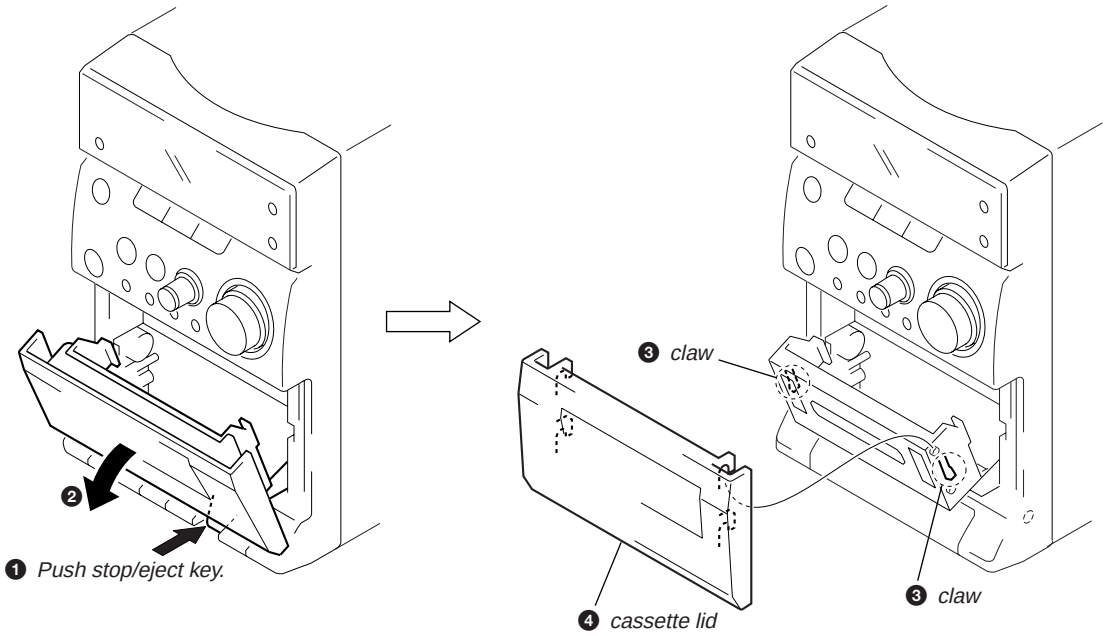
3-6. CD Cabinet Section



3-7. CD Mechanism Deck (CS-21SC-1280)



3-8. Cassette Lid



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	2.95 – 6.86 mN•m (30 – 70 g•cm) (0.42 – 0.97 oz•inch)
FWD Back Tension	CQ-102C	0.15 – 5.39 mN•m (1.5 – 5.5 g•cm) (0.021 – 0.076 oz•inch)
FF	CQ-201B	more than 5.89 mN•m (more than 60 g•cm) (more than 0.83 oz•inch)
REW	CQ-201B	more than 5.89 mN•m (more than 60 g•cm) (more than 0.83 oz•inch)

Tape Tension Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-403A	more than 100 g
		(more than 3.53 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

PRECAUTION

1. Setting
   MEGA BASS switch : OFF

TAPE DECK SECTION | 0 dB=0.775 V

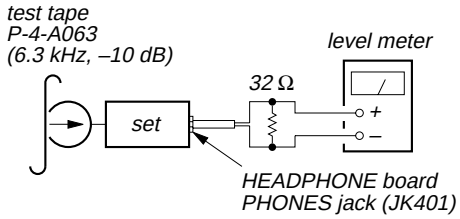
Test tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment
P-4-A063	6.3 kHz, –10 dB	Head Azimuth Adjustment

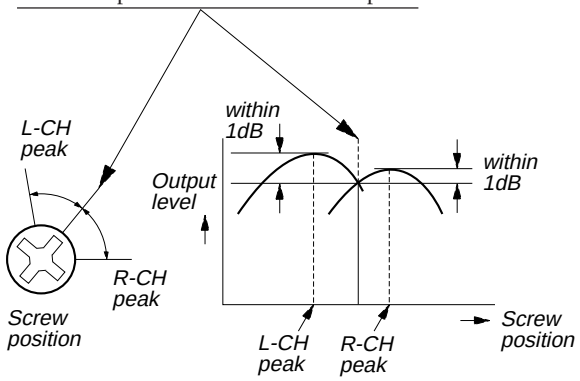
Record/Playback Head Azimuth Adjustment

Procedure:

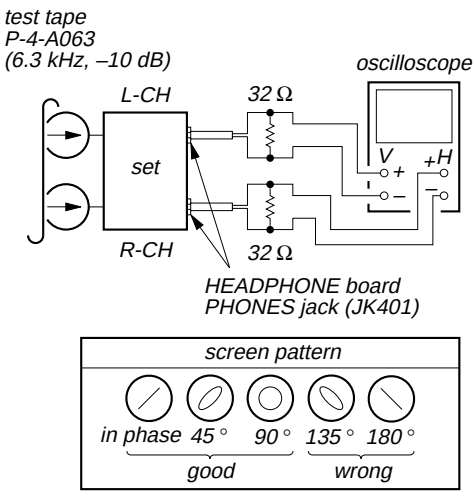
1. Mode: Playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



3. Mode: Playback

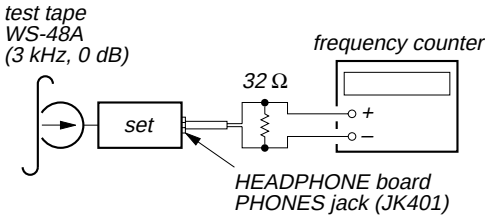


4. After the adjustments, apply suitable locking compound to the parts adjusted.

Tape Speed Adjustment

Setting:

Function: TAPE



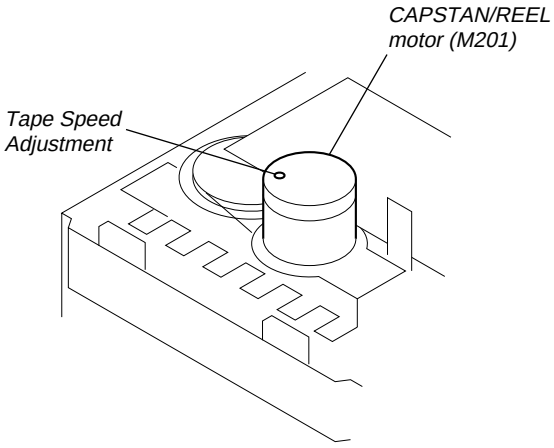
Procedure:

1. Playback WS-48A (tape center) in the FWD state.
2. Adjsut the volume in CAPSTAN/REEL motor (M201) so that the frequency counter reading becomes 3,000 Hz.

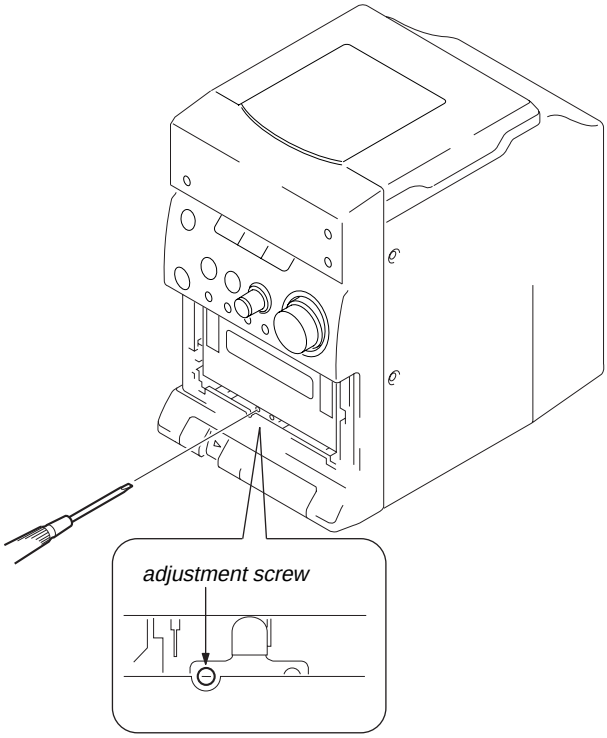
   Specified Value: 2,910 to 3,090 Hz

3. Confirm that the frequency at the beginning and that at the end of tape winding are between 2,955 to 3,045 Hz.

Adjustment Location:



Adjustment Location: Record/Playback Head.



Note: Refer to "3-8. Cassette Lid" (see page 11)

TUNER SECTION

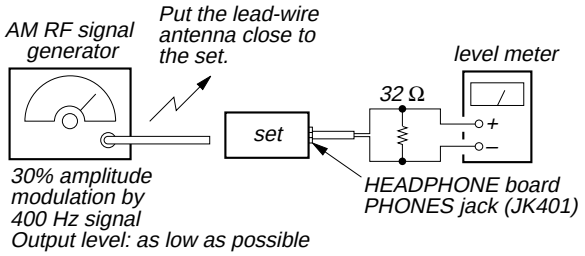
0 dB=1 µV

[AM]

Setting:

Function : TUNER

Band switch : AM

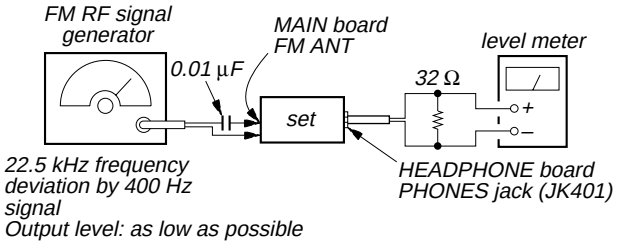


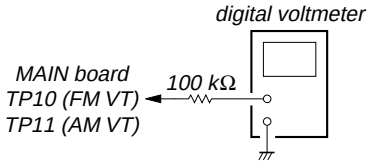
[FM]

Setting:

Function : TUNER

Band switch : FM





- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

no mark : Except AEP, UK models

< > : AEP, UK models

AM FREQUENCY COVERAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
Confirmation	530 kHz <531 kHz>	1.5 ± 0.2 V
T102	1,710 kHz <1,602 kHz>	7.7 ± 0.3 V <7.3 ± 0.3 V>

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L110	600 kHz <603 kHz>
TC102	1,400 kHz <1,404 kHz>

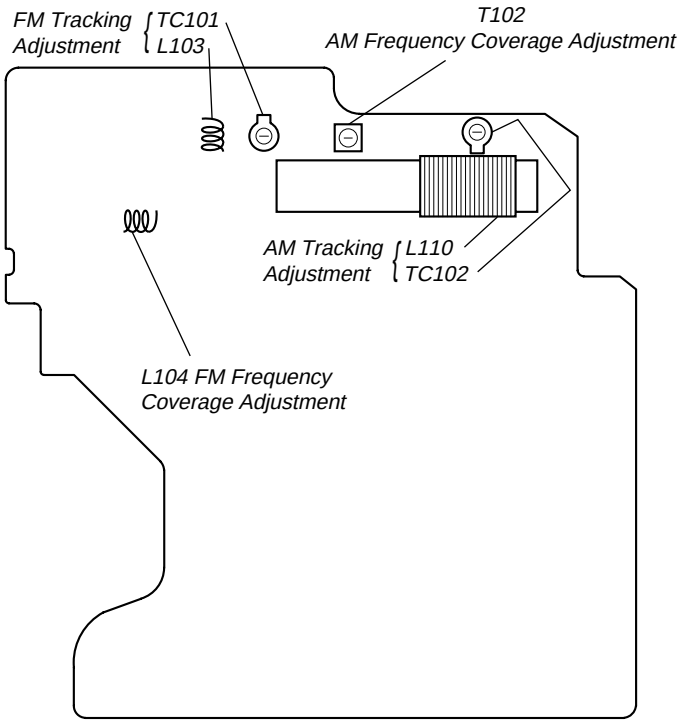
FM FREQUENCY COVERAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L104	87.6 MHz	2.1 ± 0.2 V
Confirmation	108 MHz	7.0 ± 0.4 V

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L103	89.9 MHz
TC101	105.9 MHz

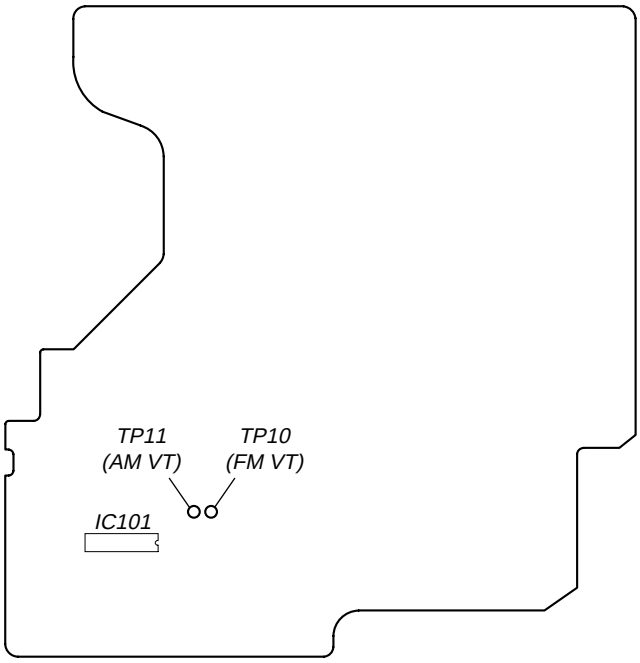
Adjustment Location: MAIN board (See page 15)

Adjustment Location and Connecting Points

– MAIN BOARD (Component Side) –

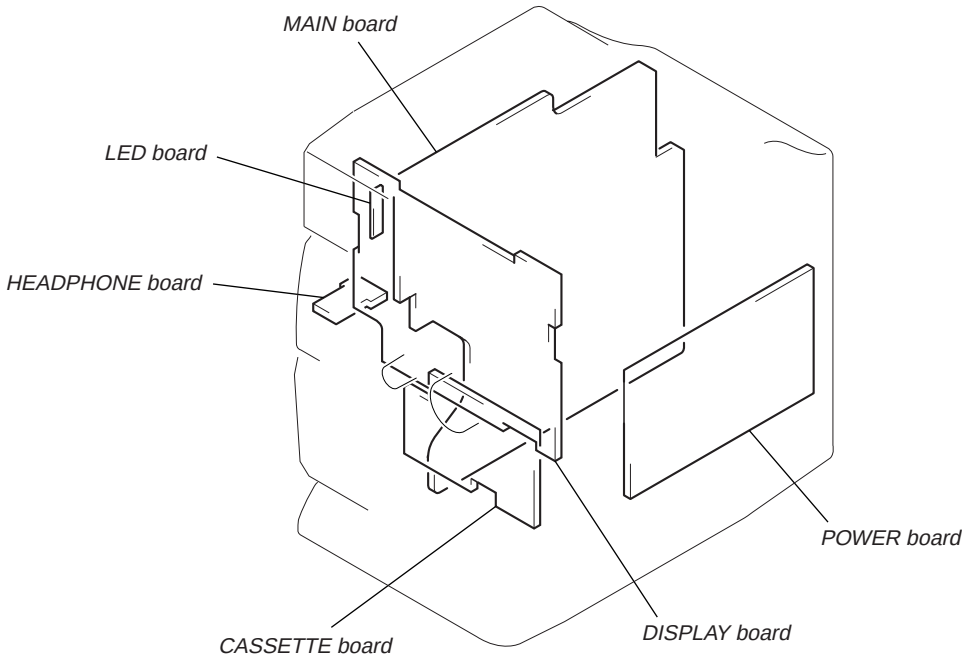


– MAIN BOARD (Conductor Side) –



SECTION 6
DIAGRAMS

6-1. Circuit Boards Location

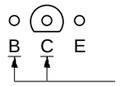


Note on Printed Wiring Board:

- ⬚← : indicates side identified with part number.
- ▬ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

- Indication of transistor



These are omitted.

Note on Schematic Diagram:

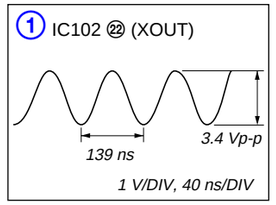
- All capacitors are in µF unless otherwise noted. p: pF. 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

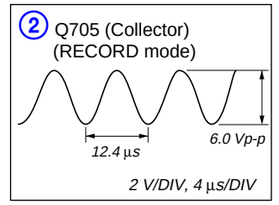
- : B+ Line.
- : adjustment for repair.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
  no mark : FM
  < > : CD (STOP)
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : AM
  : PB (TAPE)
  : REC (TAPE)
  : CD PLAY
- Abbreviation
  E51 : Chilean and Peruvian model.
  MY : Malaysia model.
  SP : Singapore model.
  AR : Argentine model.
  MX : Mexican model.
  AUS : Australian model.

• WAVEFORMS

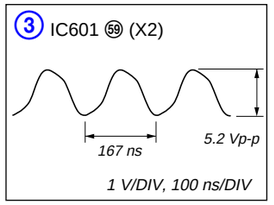
– MAIN Board –



– CASSETTE Board –

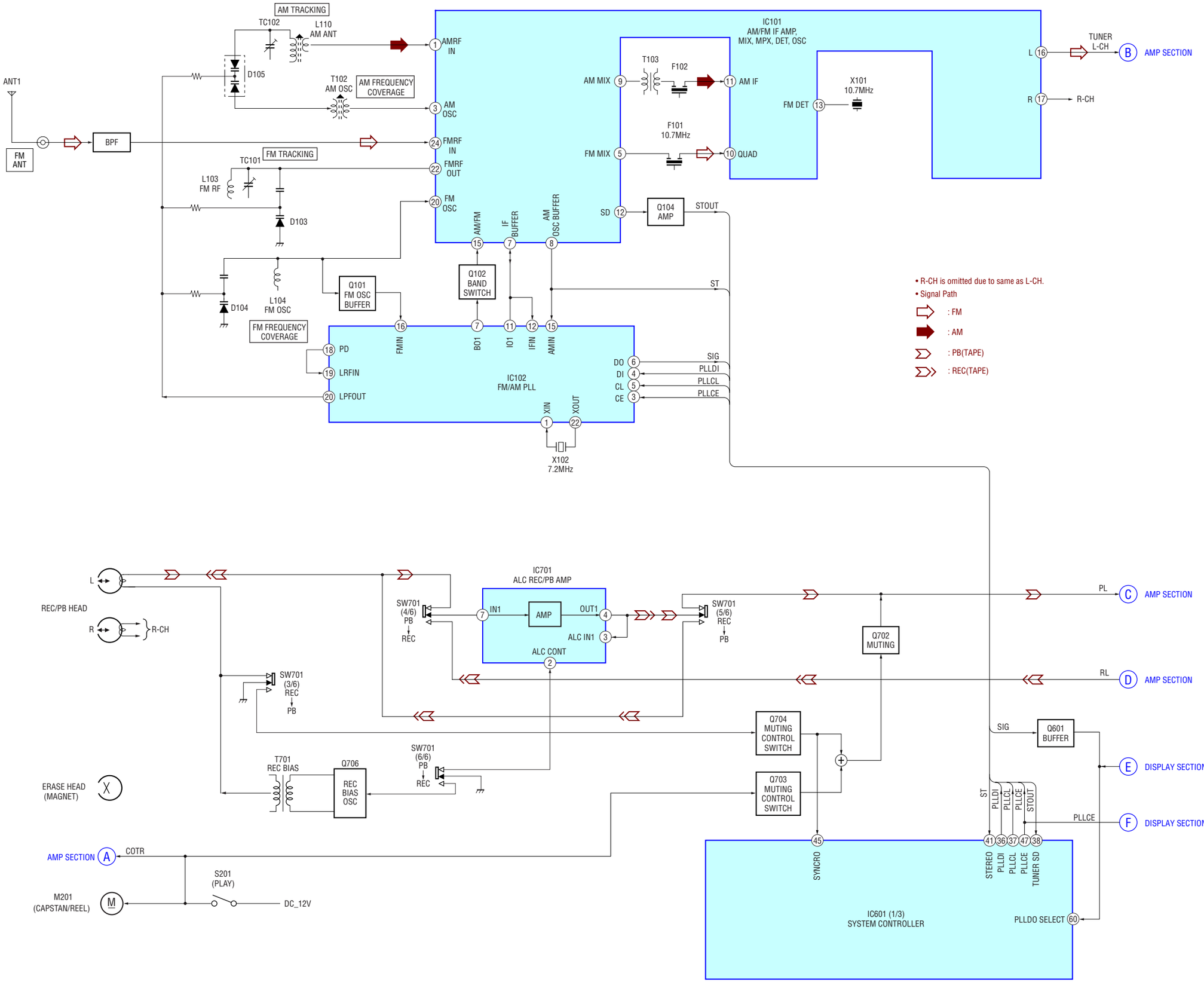


– DISPLAY Board –

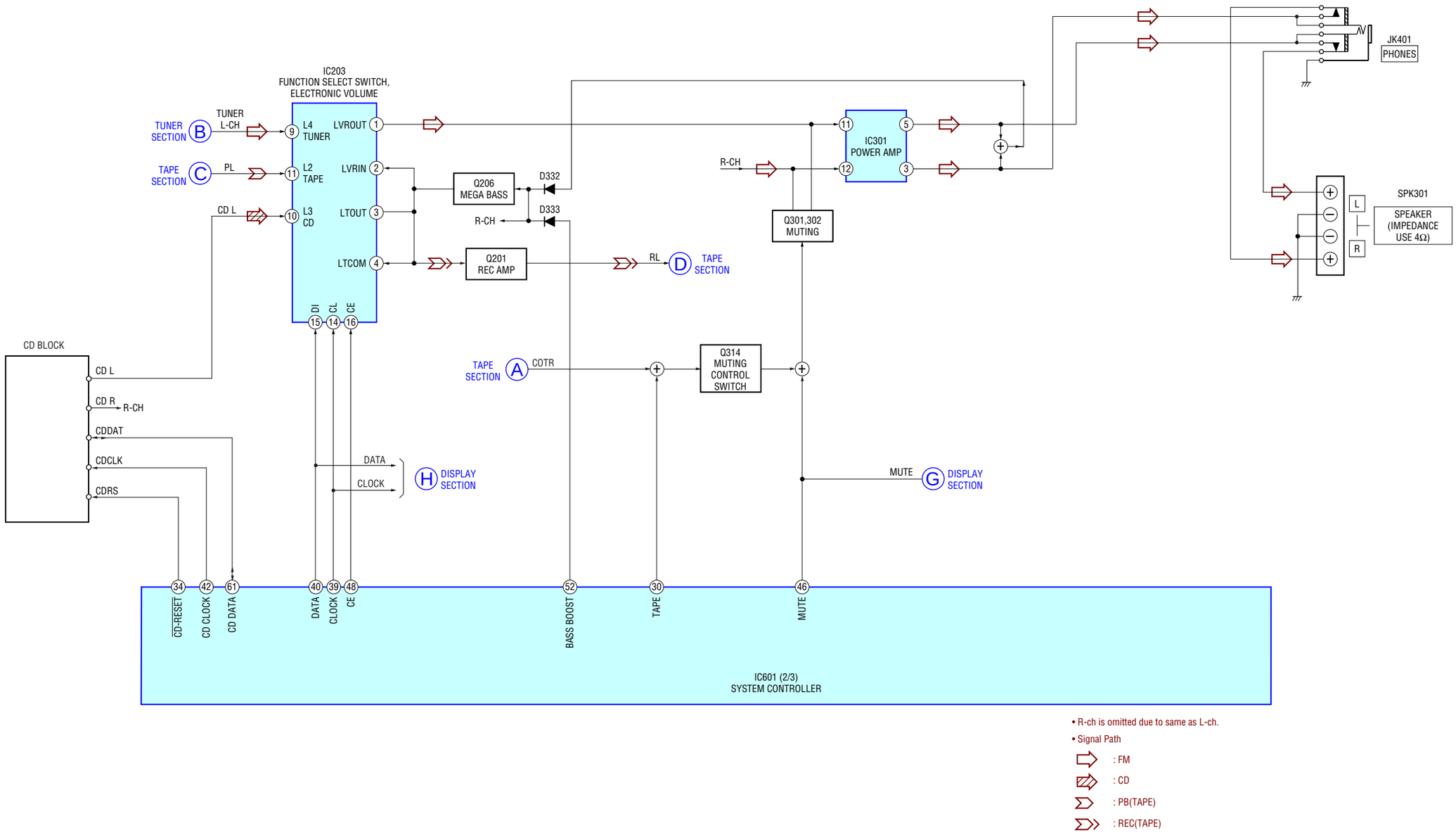


6-2. Block Diagrams

TUNER/TAPE DECK Section



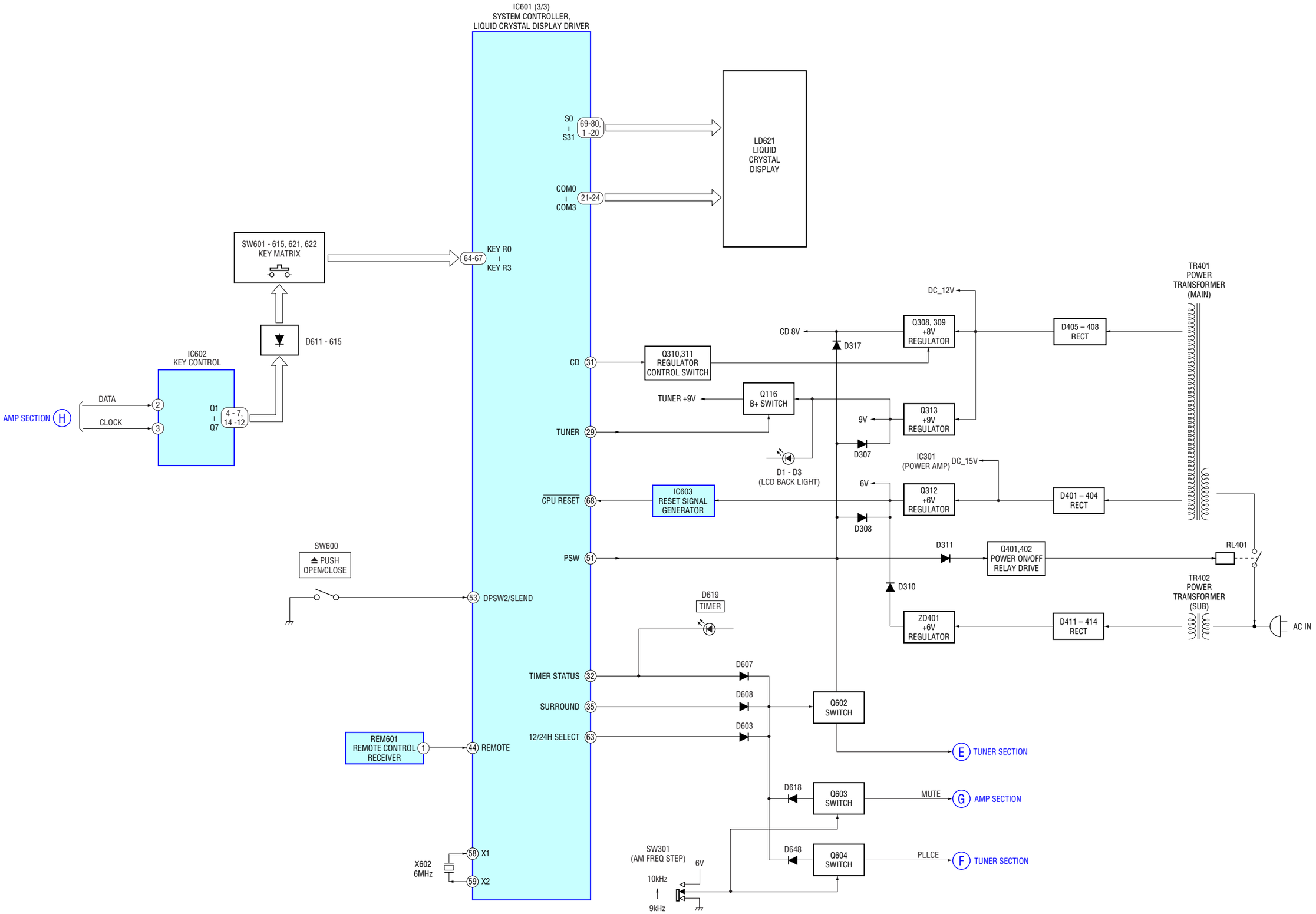
AMP Section



- R-ch is omitted due to same as L-ch.
- Signal Path
  - : FM
  - : CD
  - : PB(TAPE)
  - : REC(TAPE)

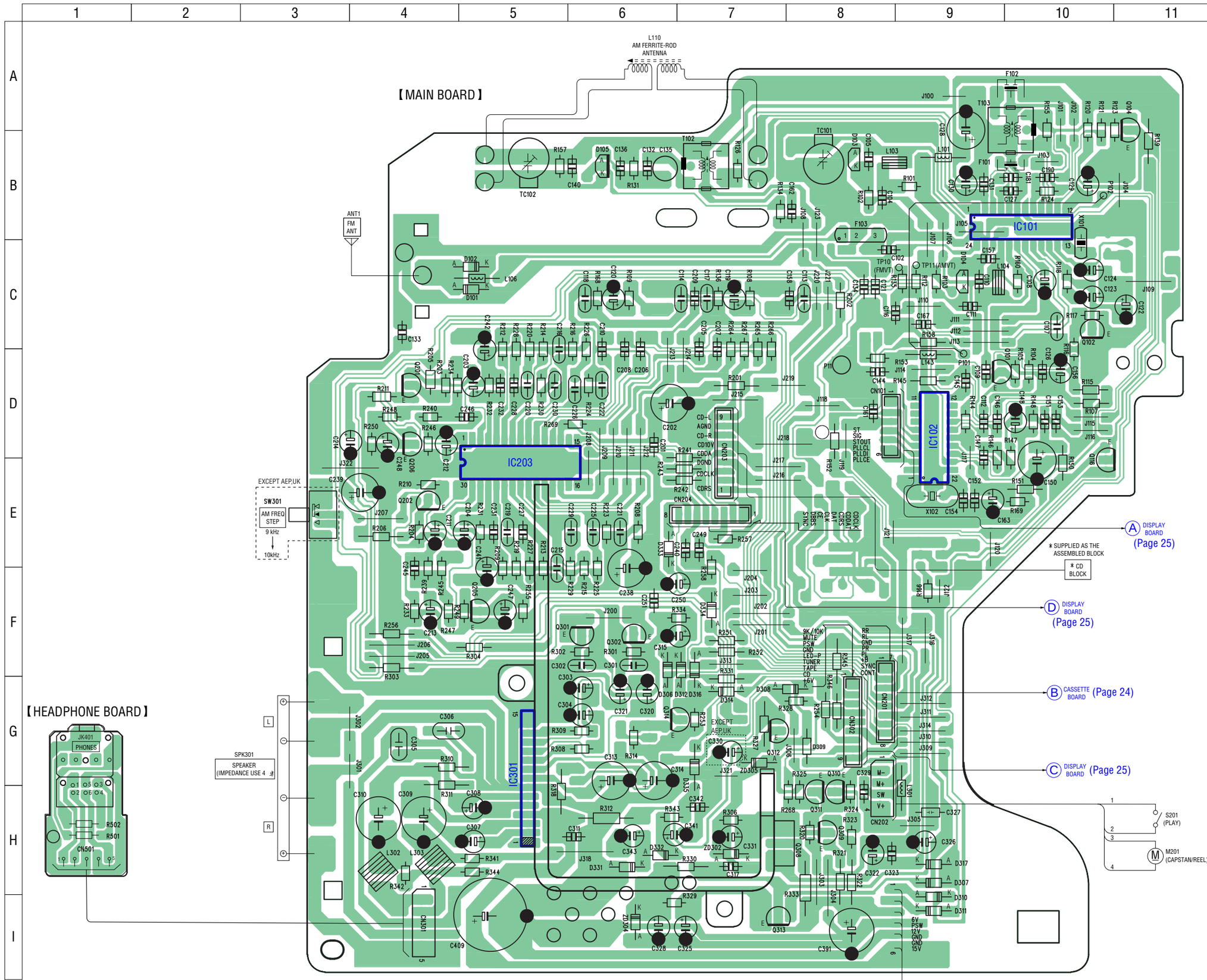
HCD-EP303

DISPLAY/POWER Section



6-3. Printed Wiring Board MAIN Section

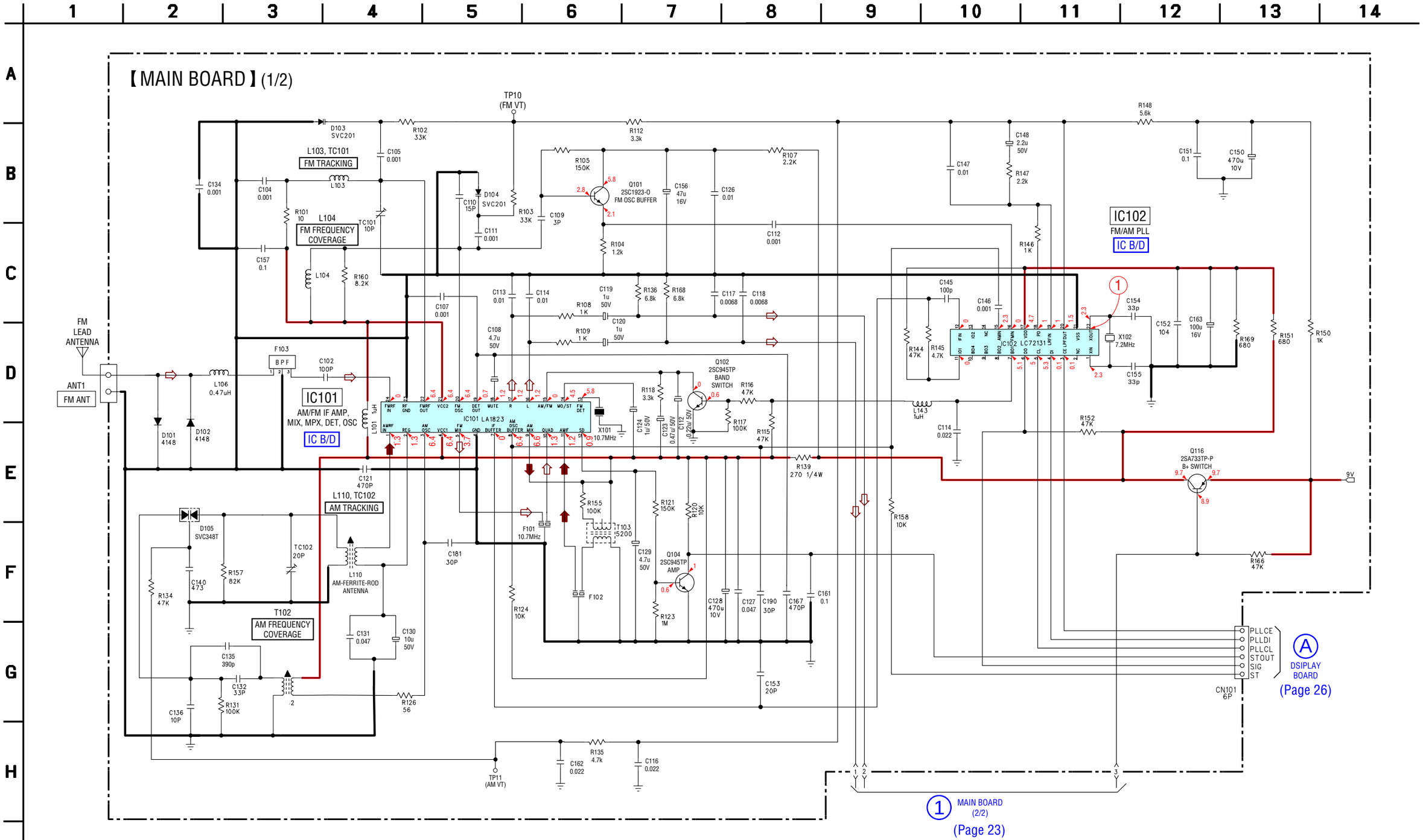
• See page 16 for Circuit Boards Location.



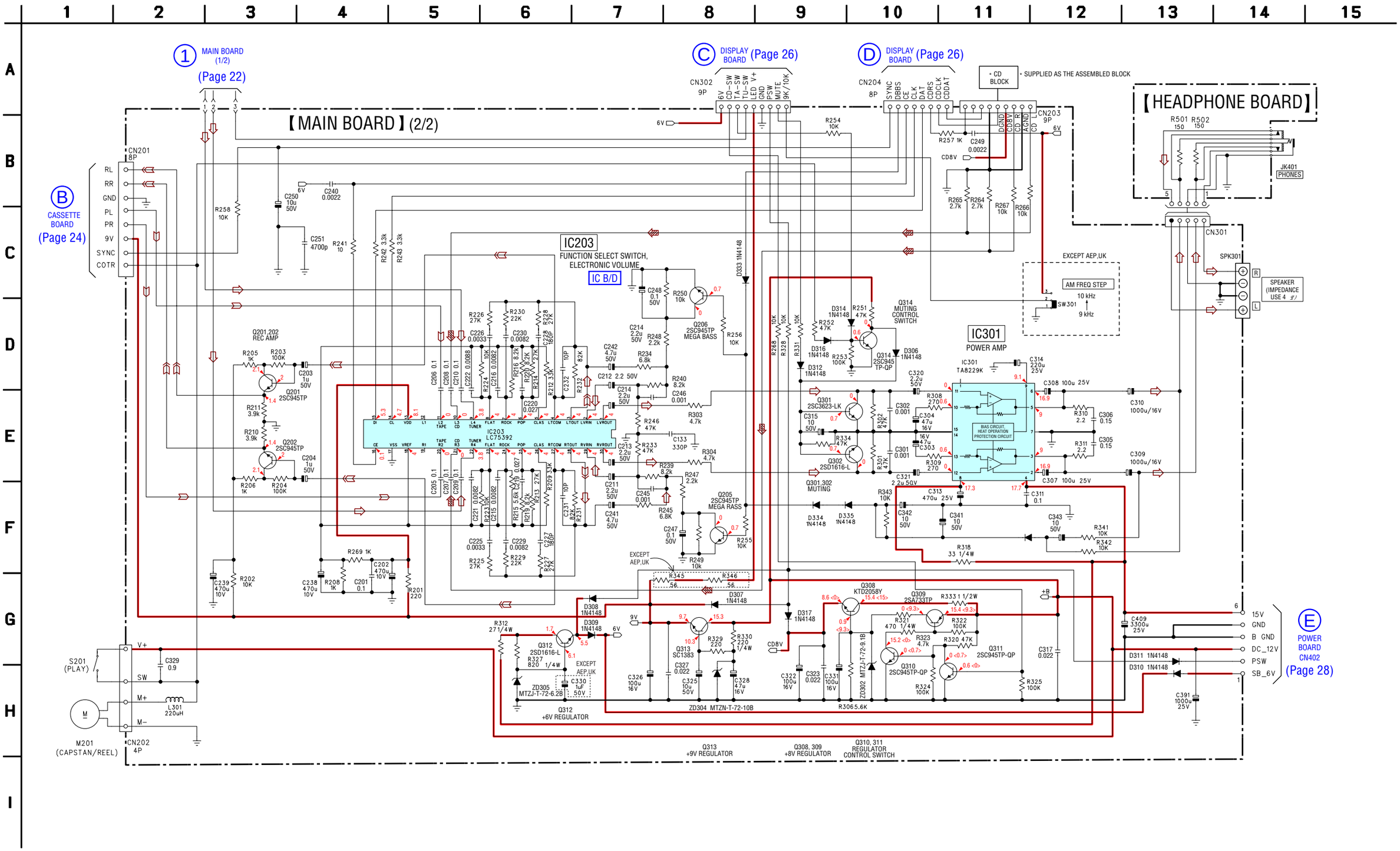
• **Semiconductor Location**

Ref. No.	Location
D101	C-5
D102	C-5
D103	B-8
D104	C-9
D105	B-6
D306	G-7
D307	H-9
D308	G-8
D310	H-9
D311	I-9
D312	G-7
D314	G-7
D316	G-7
D317	H-9
D331	D-6
D332	D-6
D333	E-7
D334	F-7
D335	G-7
IC101	B-10
IC102	D-9
IC203	E-5
IC301	G-5
Q101	D-10
Q102	C-10
Q104	B-11
Q116	E-11
Q201	D-4
Q202	E-4
Q205	F-5
Q206	D-4
Q301	F-6
Q302	F-6
Q308	H-8
Q309	H-8
Q310	H-8
Q311	H-8
Q312	G-7
Q313	I-8
Q314	G-7
ZD302	H-7
ZD304	I-6
ZD305	G-7

6-4. Schematic Diagram MIAN Section (1/2) • See page 17 for Waveforms. • See page 29 for IC Block Diagrams.

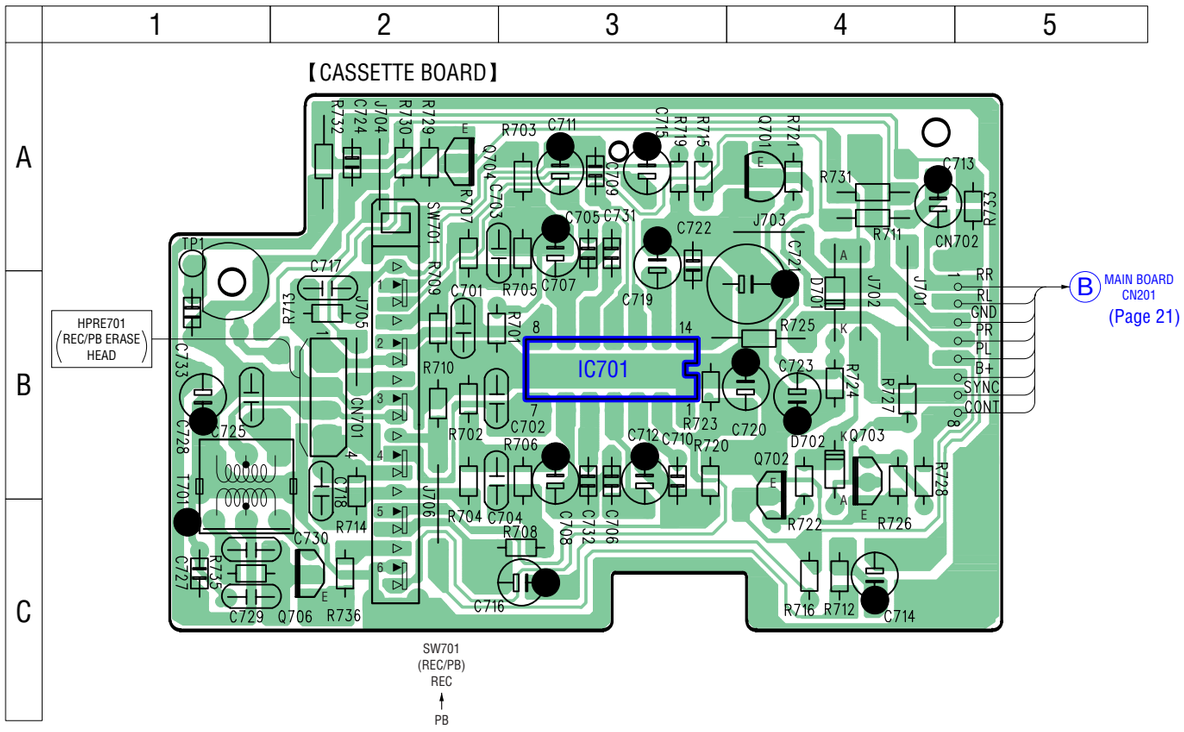


6-5. Schematic Diagram MIAN Section (2/2) • See page 30 for IC Block Diagrams.



6-6. Printed Wiring Board CASSETTE Section

• See page 16 for Circuit Boards Location.

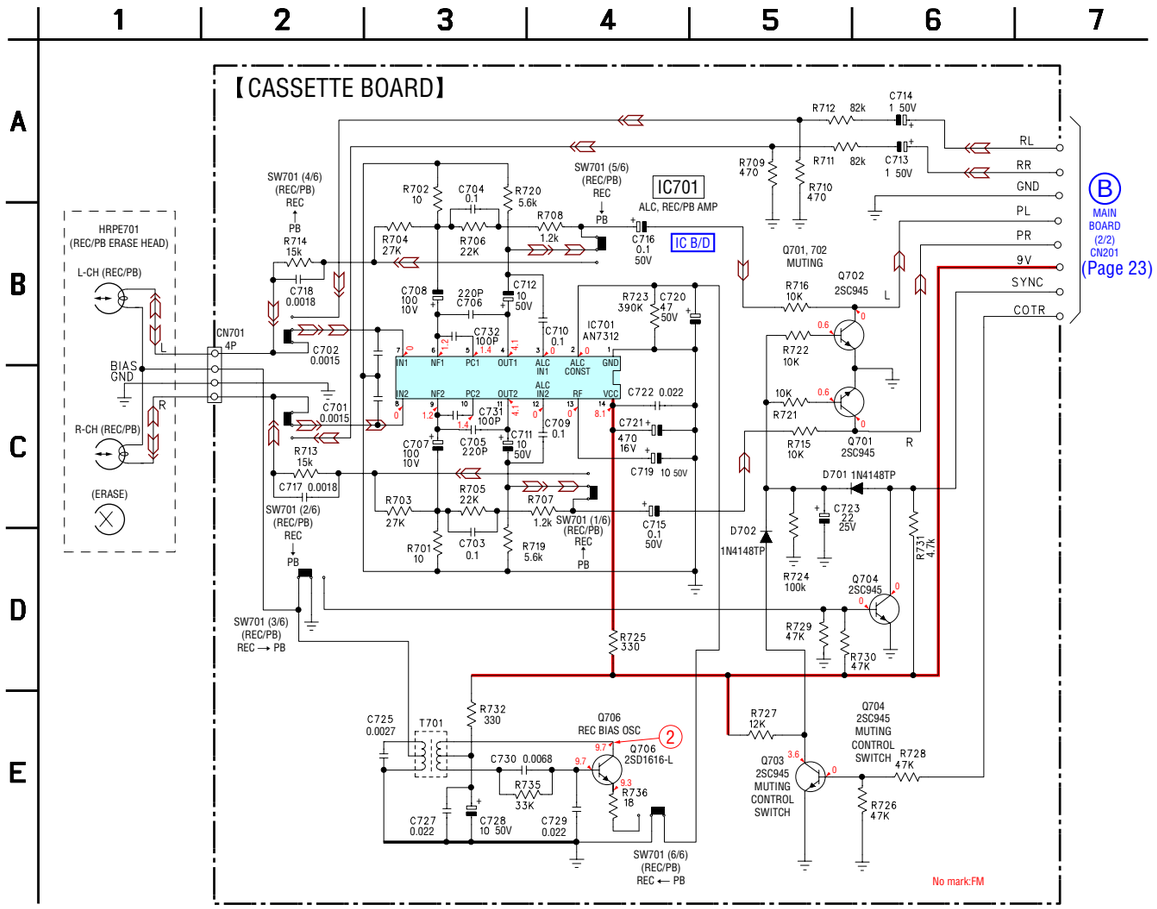


• **Semiconductor Location**

Ref. No.	Location
D701	B-4
D702	B-4
IC701	B-3
Q701	A-4
Q702	B-4
Q703	B-4
Q704	A-2
Q706	C-2

6-7. Schematic Diagram CASSETTE Section

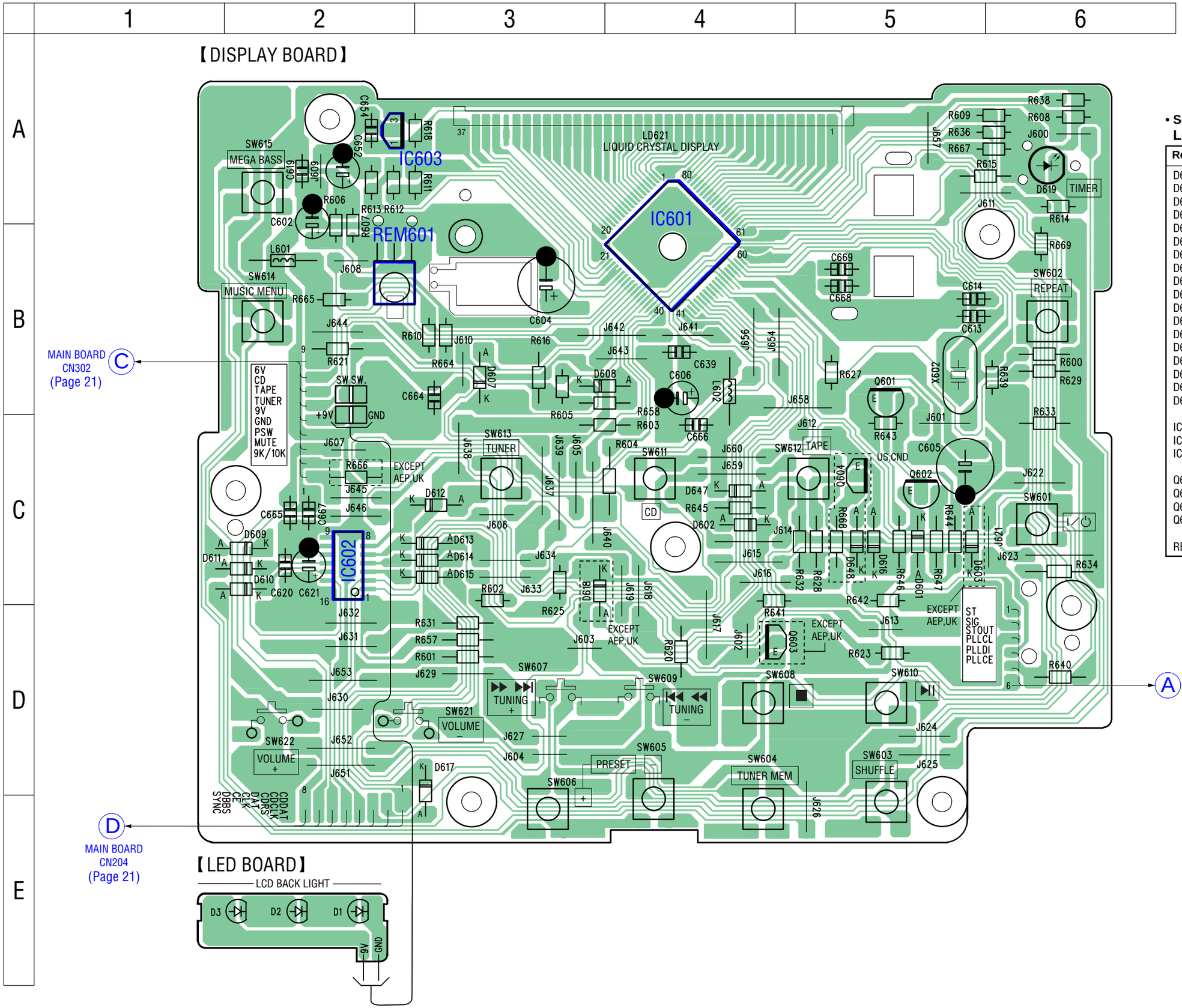
• See page 17 for Waveforms.
• See page 30 for IC Block Diagrams.



6-8. Printed Wiring Board DISPLAY Section

• See page 16 for Circuit Boards Location.

【DISPLAY BOARD】

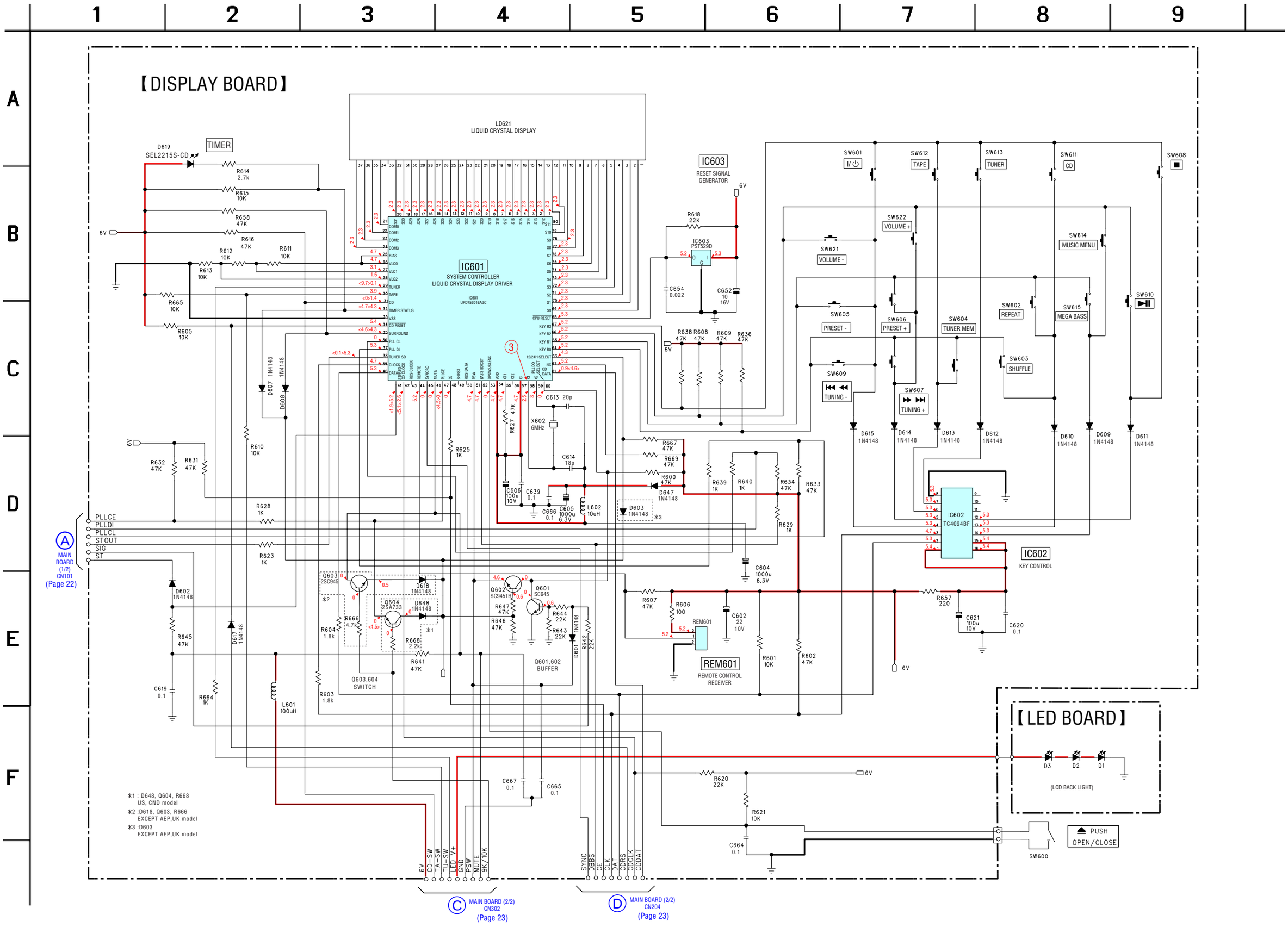


• **Semiconductor Location**

Ref. No.	Location
D601	C-5
D602	C-4
D603	C-5
D607	B-3
D608	B-3
D609	C-2
D610	C-2
D611	C-1
D612	C-3
D613	C-3
D614	C-3
D615	C-3
D616	C-5
D617	D-3
D618	C-3
D619	A-6
D647	C-4
D648	C-5
IC601	A-4
IC602	C-2
IC603	A-2
Q601	B-5
Q602	C-5
Q603	D-4
Q604	C-5
REM601	B-2

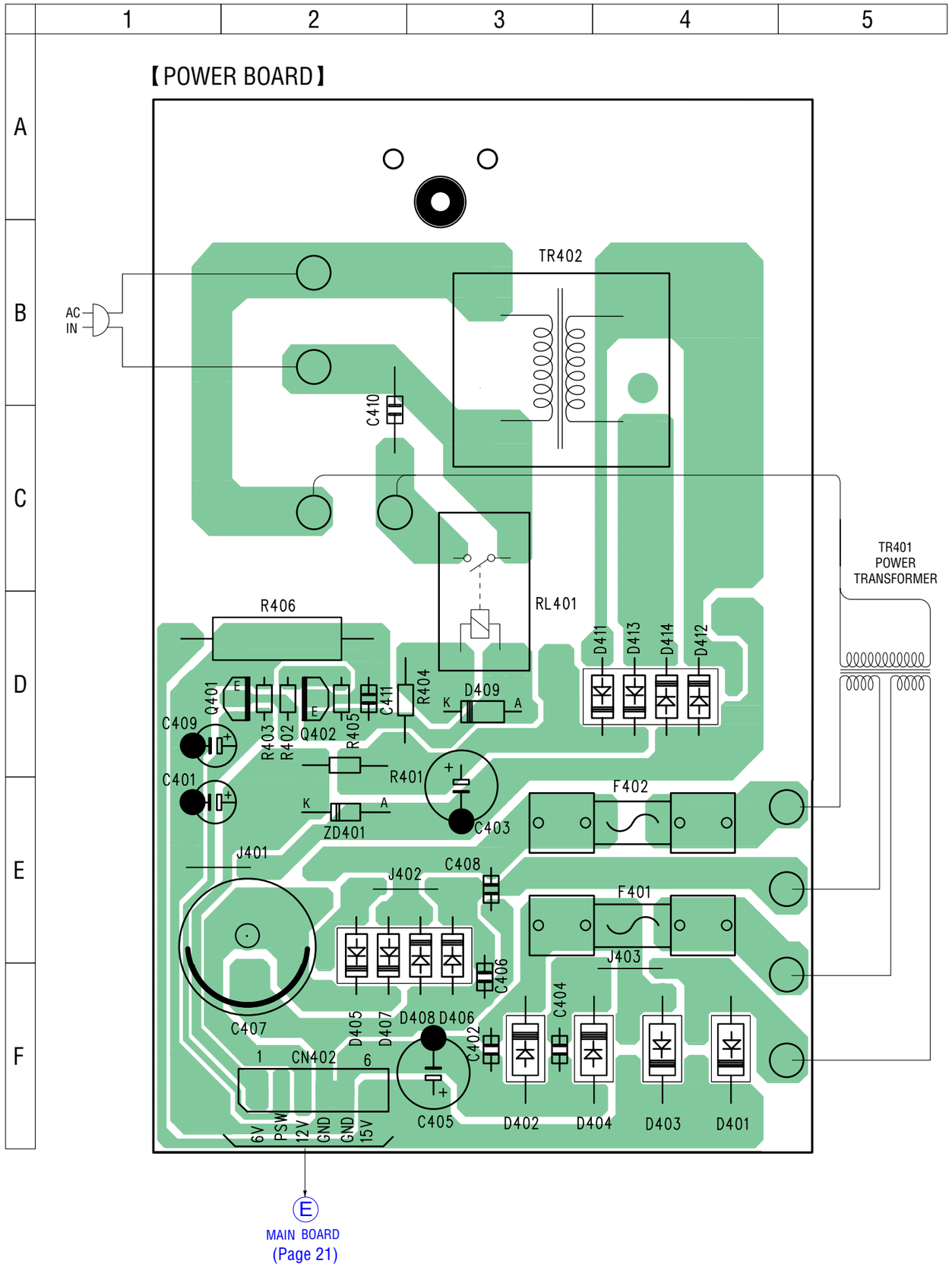
6-9. Schematic Diagram DISPLAY Section

• See page 17 for Waveforms.



6-10. Printed Wiring Board POWER Section

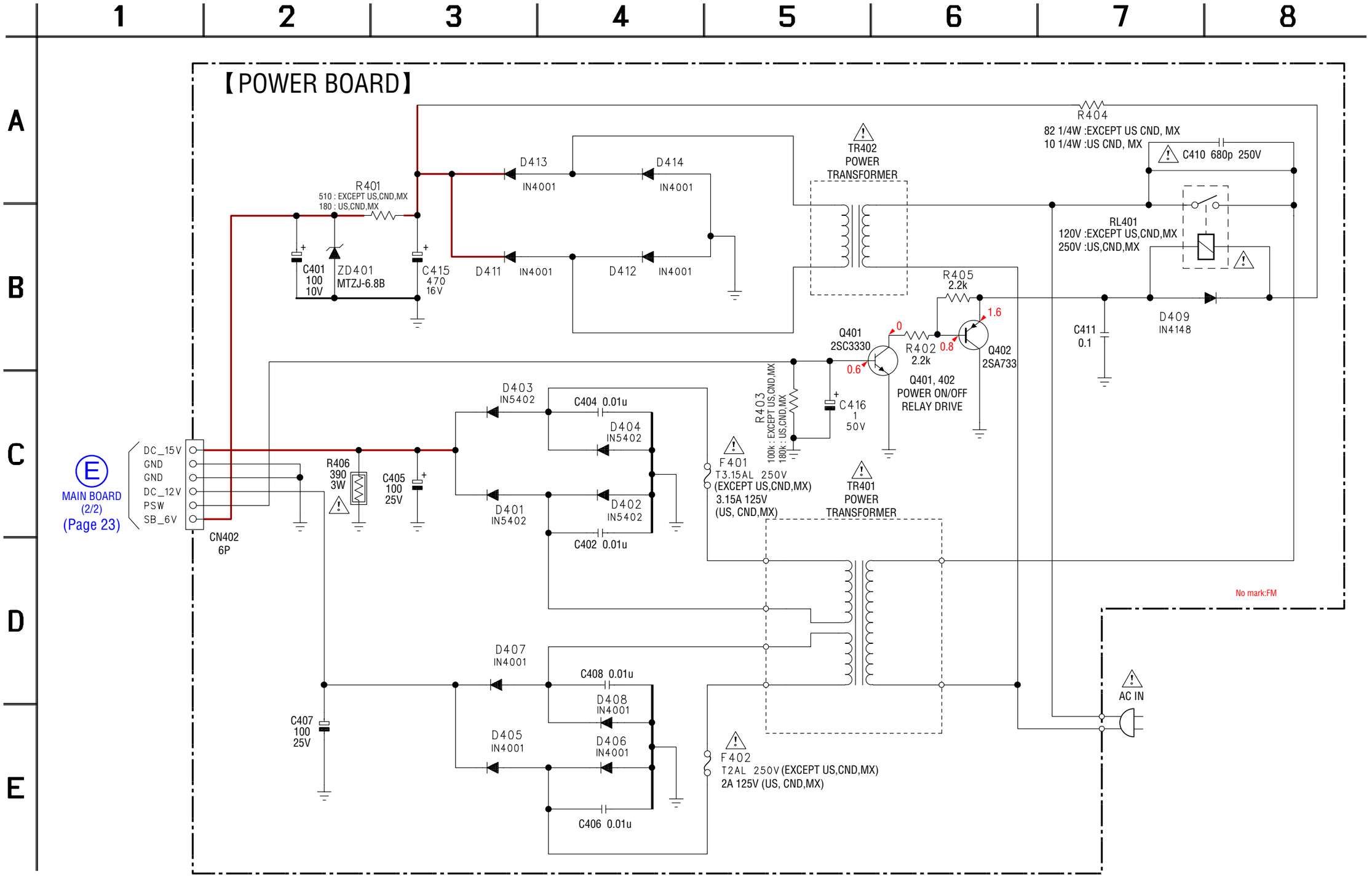
• See page 16 for Circuit Boards Location.



• **Semiconductor Location**

Ref. No.	Location
D401	F-4
D402	F-3
D403	F-4
D404	F-4
D405	F-2
D406	F-3
D407	F-2
D408	F-3
D409	D-3
D411	D-4
D412	D-4
D413	D-4
D414	D-4
Q401	D-1
Q402	D-2
ZD401	E-2

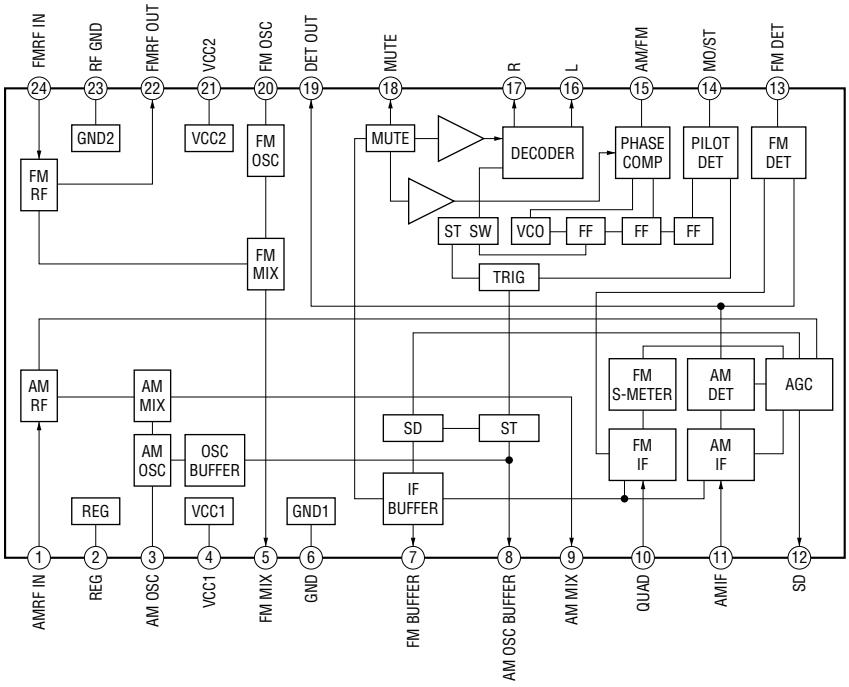
6-11. Schematic Diagram POWER Section



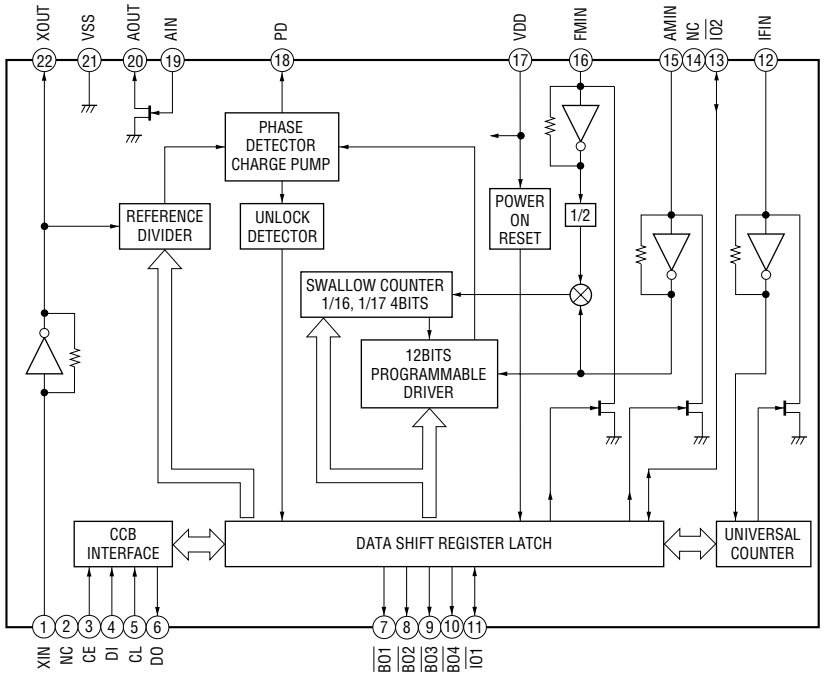
• IC Block Diagrams

– MAIN Board –

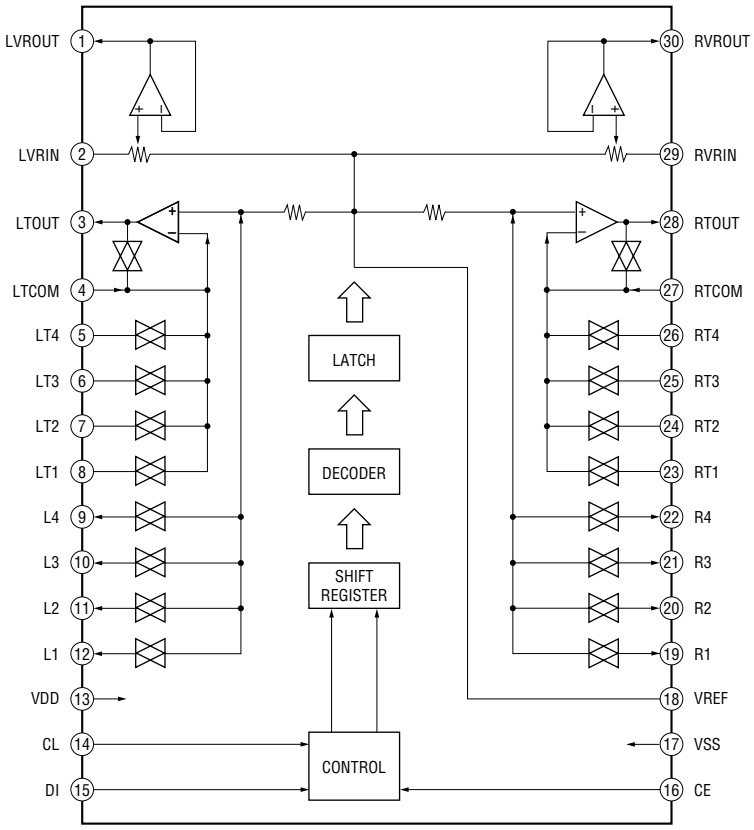
IC101 LA1823



IC102 LC72131

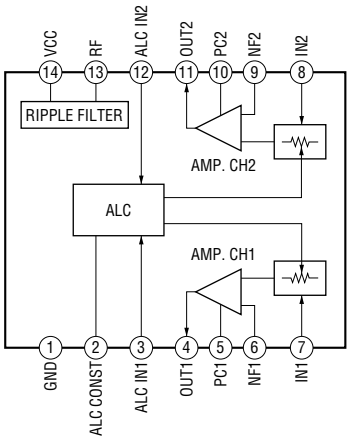


IC203 LC75392



– CASSETTE Board –

IC701 AN7312



6-12. IC Pin Function Description

• IC601 µPD753016AGC-F37-3B9 SYSTEM CONTROLLER, LIQUID CRYSTAL DISPLAY DRIVER (DISPLAY BOARD)

Pin No.	Pin Name	I/O	Description
1 to 20	S12 to S31	O	Segment drive signal output to the liquid crystal display (LD621)
21 to 24	COM0 to COM3	O	Common drive signal output to the liquid crystal display (LD621)
25	BIAS	O	Bias output for the liquid crystal display drive
26 to 28	VLC0 to VLC2	I	Input terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage
29	TUNER	O	Power on/off control signal output for the tuner section “L ”:power on
30	TAPE	O	Audio line muting on/off control signal output “L ”:muting on
31	CD	O	Power on/off control signal output for the CD section “L ”:power on
32	TIMER STATUS	O	LED drive signal output of the TIMER indicator (D619)“L ”:LED on
33	VSS	—	Ground terminal
34	$\overline{\text{CD-RESET}}$	O	Reset signal output to the CD section “L ”:reset
35	SURROUND	O	Not used (pull up)
36	PLL CL	O	PLL serial data transfer clock signal output to the FM/AM PLL (IC102)
37	PLL DI	O	PLL serial data output to the FM/AM PLL (IC102)
38	TUNER SD	I	FM and AM signal meter voltage detection input from the LA1823 (IC101)
39	CLOCK	O	Serial data transfer clock signal output to the LC75392 (IC203)
40	DATA	O	Serial data output to the LC75392 (IC203)
41	STEREO	I	FM stereo detection signal input from the LA1823 (IC101)“L ”:stereo
42	CD CLOCK	I	Serial data transfer clock signal input from the CD section
43	RDS CLOCK	I	Serial data transfer clock signal input from the RDS decoder (IC604) (not used)
44	REMOTE	I	Remote control signal input from the remote control receiver (RM601)
45	SYNCRO	I	Recording on detection signal input
46	MUTE	O	Audio line muting on/off control signal output “H ”:muting on
47	PLLCE	O	PLL chip enable signal output to the FM/AM PLL (IC102)“H ” active
48	CE	O	Chip enable signal output to the LC75392 (IC203)“H ” active
49	SHRST	O	Not used (open)
50	RDS DATA	I	Serial data input from the RDS decoder (IC604) (not used)
51	PSW	O	System power on/off control signal out “H ”:power on
52	BASS BOOST	O	Mega bass on/off selection signal output “H ”:mega bass on
53	DPSW2/SLEND	I	CD lid open/close detection switch (SW600)input terminal “L ”:CD lid is closed
54	VDD	—	Power supply terminal
55	XT1	I	Power failure detection input terminal “L ”:power failure,“H ”:power on
56	XT2	O	Not used (open)
57	IC	—	Internal connection terminal (connected to power supply)
58	X1	I	Main system clock input terminal (6 MHz)
59	X2	O	Main system clock output terminal (6 MHz)
60	PLLDO SELECT	I	PLL serial data input from the FM/AM PLL (IC102)
61	CD DATA	I/O	Two-way data bus with the CD section
62	NC	—	Not used (open)
63	12/24H SELECT	I	Not used (fixed at “H ”)
64 to 67	KEY R0 to KEY R4	I	Key return signal input from the key matrix “L ” input when key pressing
68	$\overline{\text{CPU RESET}}$	I	System reset signal input from the reset signal generator (IC603)“L ”:reset For several hundreds msec.after the power supply rises,“L ” is input,then it changes to “H ”
69 to 80	S0 to S11	O	Segment drive signal output to the liquid crystal display (LD621)

SECTION 7
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

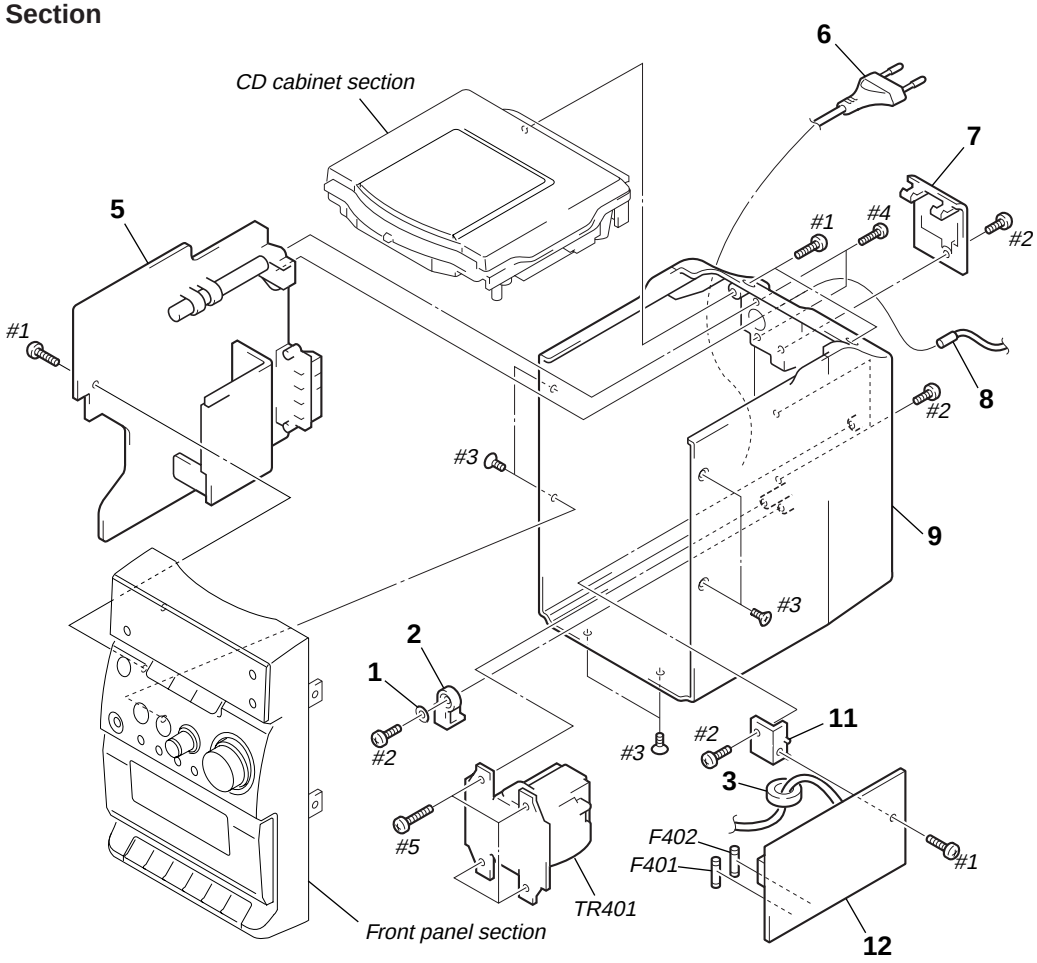
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Abbreviation

CND : Canadian model. AR : Argentine model.
E51 : Chilean and Peruvian model. MX : Mexican model.
MY : Malaysia model. AUS : Australian model.
SP : Singapore model.

7-1. Cabinet Section

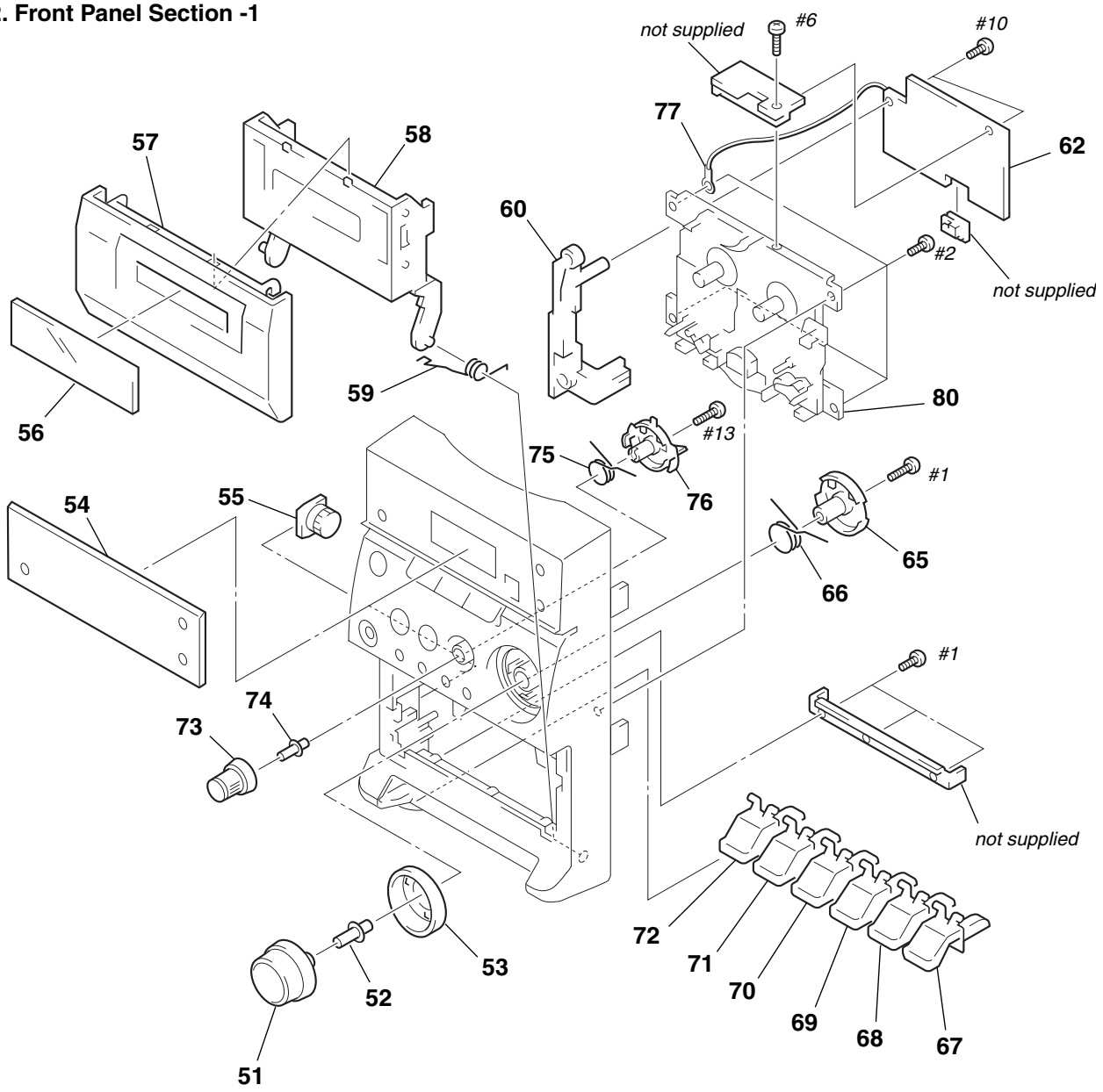


Ref. No.	Part No.	Description	Remarks
1	3-451-162-00	WASHER	
2	4-235-952-01	AC CORD HOLDER	
3	1-500-712-11	CORE, FERRITE (AEP,UK)	
5	A-4676-971-A	MAIN BOARD, COMPLETE (AEP,UK)	
5	A-4729-806-A	MAIN BOARD, COMPLETE (EXCEPT AEP,UK)	
⚠6	1-555-750-00	CORD, POWER (AEP,E51,MY,SP)	
⚠6	1-696-535-11	CORD, POWER (UK)	
⚠6	1-696-966-31	CORD, POWER (AUS)	
⚠6	1-783-525-31	CORD, POWER (MX)	
⚠6	1-783-820-11	CORD, POWER (US,CND)	
⚠6	1-783-941-51	CORD, POWER (AR)	
7	4-235-974-01	CAB, ANTENNA COVER	
8	1-823-170-11	CORD (WITH CONNECTOR) (FM ANT)	
9	4-235-972-01	REAR CABINET (AEP,UK)	
9	4-241-498-01	REAR CABINET (EXCEPT AEP,UK)	
11	4-240-251-01	POWER PWB MOUNT ING BKT.	
12	A-4729-805-A	POWER BOARD, COMPLETE (US,CND,MX)	
12	A-4676-975-A	POWER BOARD, COMPLETE (EXCEPT US,CND,MX)	

Ref. No.	Part No.	Description	Remarks
⚠F401	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) T3.15AL/250V	(EXCEPT US, CND, MX)
⚠F401	1-533-690-11	FUSE, GLASS SYLINDRICAL (DIA. 5) 3.15A/125V	(US, CND, MX)
⚠F402	1-533-296-11	FUSE, GLASS SYLINDRICAL (DIA. 5) 2A/125V	(US, CND, MX)
⚠F402	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) T2AL/250V	(EXCEPT US, CND, MX)
⚠TR401	1-437-816-11	TRANSFORMER, POWER	(EXCEPT US, CND, MX)
⚠TR401	1-437-818-11	TRANSFORMER, POWER (US, CND, MX)	
#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
#2	7-685-647-14	SCREW +BVTP 3X10 TYPE2 SLIT	
#3	7-682-246-04	SCREW +K 3X5	
#4	7-685-535-14	SCREW +BTP 2.6X10 TYPE2 N-S	
#5	7-685-648-14	SCREW +BVTP 3X12 TYPE2 SLIT	
#12	7-685-646-14	SCREW +BVTP 3X8 TYPE2 SLIT	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

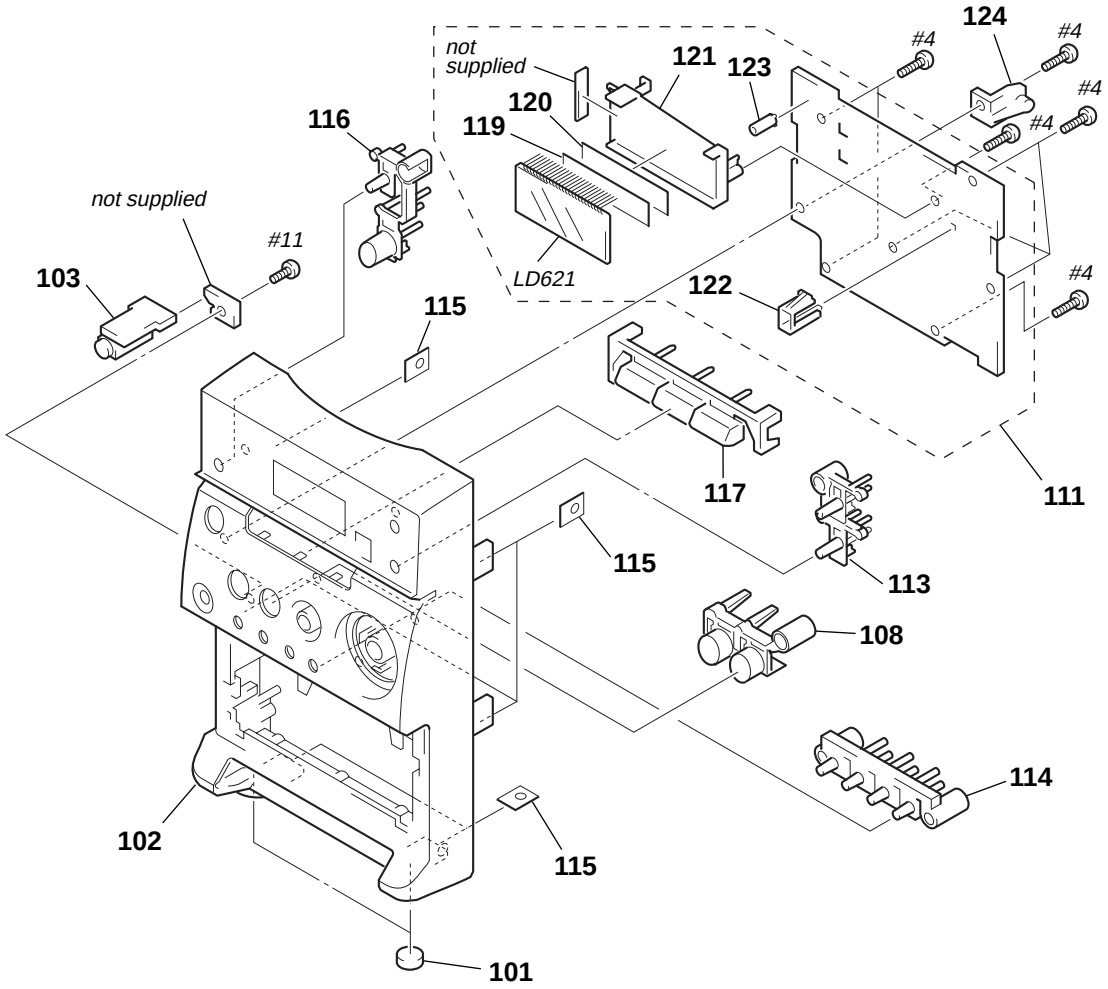
7-2. Front Panel Section -1



Ref. No.	Part No.	Description	Remarks
51	4-240-260-01	VOLUME SWING KNOB	
52	4-240-256-01	VOLUME SWING SHAFT	
53	4-240-245-01	VOLUME DECORATION RING	
54	4-240-241-01	DISPLAY WINDOW	
55	4-236-899-01	DAMPER	
56	4-240-240-01	CASS LID WINDOW	
57	4-240-274-01	CASS LID	
58	4-240-246-01	CASS LID BKT.	
59	4-235-981-01	CASS LID SPRING	
60	4-240-247-01	MAIN PWB MOUNT ING BKT.A	
62	A-4676-974-A	CASSETTE BOARD, COMPLETE	
65	4-240-259-01	VOLUME SWING LEVER	
66	4-235-989-01	VOLUME KNOB SPRING	
67	4-240-262-01	CASS KEY (PAUSE)	
68	4-240-263-01	CASS KEY (STOP/EJECT)	

Ref. No.	Part No.	Description	Remarks
69	4-240-264-01	CASS KEY (FF)	
70	4-240-265-01	CASS KEY (REW)	
71	4-240-266-01	CASS KEY (PLAY)	
72	4-240-267-01	CASS KEY (REC)	
73	4-240-261-01	TUNING SWING KNOB	
74	4-240-257-01	TUNING SWING SHAFT	
75	4-240-276-01	TUNING KNOB SPRING	
76	4-240-258-01	TUNING SWING LEVER	
77	7-623-508-01	LUG, 3	
80	1-796-190-11	DECK, MECH	
#1	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
#2	7-685-647-14	SCREW +BVTP 3X10 TYPE2 SLIT	
#6	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	
#10	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#13	7-685-854-04	SCREW +BVTT 2X8 (S)	

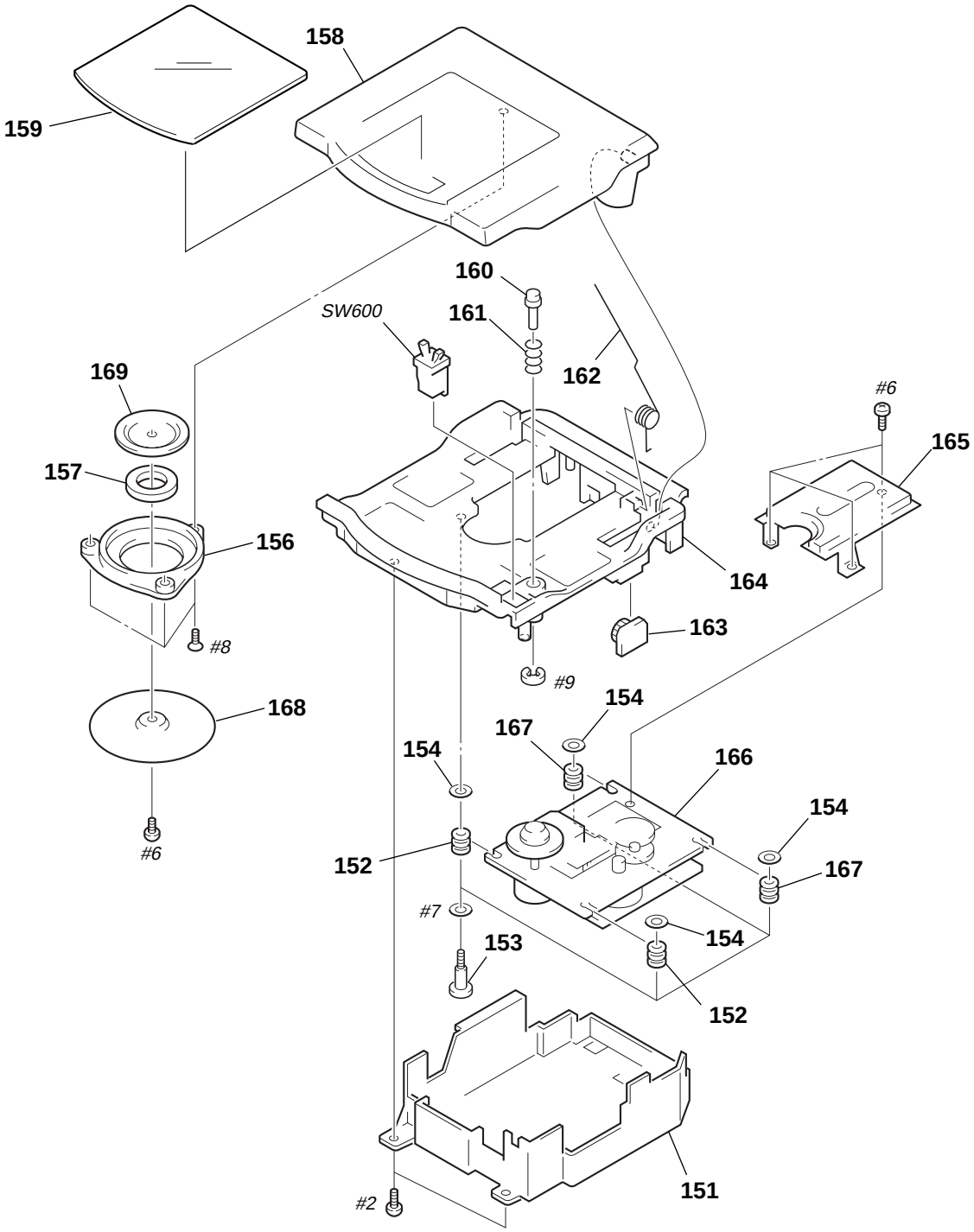
7-3. Front Panel Section -2



Ref. No.	Part No.	Description	Remarks
101	4-235-995-01	RUBBER FOOT	
102	4-240-273-01	FRONT PANEL (EXCEPT US,CND)	
102	4-241-641-01	FRONT PANEL (US,CND)	
103	A-4676-973-A	HEADPHONE BOARD, COMPLETE (AEP, UK)	
108	4-240-270-01	PLAY/STOP KNOB	
111	A-4676-972-A	DISPLY BOARD, COMPLETE (AEP, UK)	
111	A-4729-804-A	DISPLY BOARD, COMPLETE (US,CND)	
111	A-4729-808-A	DISPLY BOARD, COMPLETE (EXCEPT US,CND,AEP,UK)	
113	4-240-269-01	BASS/MENU KNOB	
114	4-240-271-01	PRESET UP/DOWN KNOB	
115	4-235-994-01	PANEL FIXING PLATE	

Ref. No.	Part No.	Description	Remarks
116	4-240-268-01	DISPLAY/POWER KNOB	
117	4-240-272-01	FUNCTION KNOB	
119	4-240-277-01	LCD DIFFUSE SHEET	
120	4-240-243-01	LCD LIGHT GUIDE	
121	4-240-254-01	LCD BACKLITE HOLDER	
122	4-240-252-01	REMOTE SENSOR HOLDER	
123	4-240-253-01	TIMER LED HOLDER	
124	4-240-248-01	MAIN PWB MOUNT ING BKT.B	
LD621	1-804-496-11	DISPLAY PANEL, LIQUID CRYSTAL	
#4	7-685-535-14	SCREW +BTP 2.6X10 TYPE2 N-S	
#11	7-685-135-19	SCREW (+ PTPWH) (2.6X10)	

7-4. CD Cabinet Section



Ref. No.	Part No.	Description	Remarks
151	4-240-255-01	CD COVER HOUSING	
152	4-236-280-01	RUBBER, VIBRATION PROOF (PINK)	
153	4-235-991-01	PULLEY SCREW	
* 154	3-509-138-00	CLAMP, SPRING	
156	4-235-948-01	DISC HOLDER BKT	
157	1-471-144-11	MAGNET	
158	4-240-275-01	CD LID	
159	4-240-242-01	CD LID WINDOW	
160	4-235-970-01	NSX1 PUSH ROD	
161	4-235-990-01	CD EJECT SPRING	
162	4-235-982-01	CD LID SPRING	
163	4-236-899-01	DAMPER	
164	4-240-244-01	CD TRAY (EXCEPT US,CND)	

Ref. No.	Part No.	Description	Remarks
164	4-241-494-01	CD TRAY (US,CND)	
165	4-235-949-01	PU COVER	
166	1-796-189-11	MECH, CD	
167	4-236-281-01	RUBBER, VIBRATION PROOF (ORG)	
168	4-235-971-01	PLASTIC COVER	
169	4-236-860-01	METAL COVER	
SW600	1-692-960-21	SWITCH, PUSH (1 KEY)	
#2	7-685-647-14	SCREW +BVTP 3X10 TYPE2 SLIT	
#6	7-685-504-19	SCREW +BTP 2X6 TYPE2 N-S	
#7	7-623-916-21	FIBER WASHER 3.3,SMALL	
#8	7-685-233-19	SCREW +KTP 2.6X6 TYPE2NON-SLIT	
#9	7-624-106-04	STOP RING 3.0, TYPE -E	

CASSETTE

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  CND : Canadian model. AR : Argentine model.
  E51 : Chilean and Peruvian model. MX : Mexican model.
  MY : Malaysia model. AUS : Australian model.
  SP : Singapore model.

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
	A-4676-974-A	CASSETTE BOARD, COMPLETE **********			
	7-623-508-01	LUG, 3			
		< CAPACITOR >			
C701	1-130-473-00	MYLAR	0.0015uF	5% 50V	
C702	1-130-473-00	MYLAR	0.0015uF	5% 50V	
C703	1-130-495-00	MYLAR	0.1uF	5% 50V	
C704	1-130-495-00	MYLAR	0.1uF	5% 50V	
C705	1-162-286-31	CERAMIC	220PF	10% 50V	
C706	1-162-286-31	CERAMIC	220PF	10% 50V	
C707	1-104-665-11	ELECT	100uF	20.00% 10V	
C708	1-104-665-11	ELECT	100uF	20.00% 10V	
C709	1-164-159-11	CERAMIC	0.1uF	50V	
C710	1-164-159-11	CERAMIC	0.1uF	50V	
C711	1-126-964-11	ELECT	10uF	20.00% 50V	
C712	1-126-964-11	ELECT	10uF	20.00% 50V	
C713	1-126-960-11	ELECT	1uF	20.00% 50V	
C714	1-126-960-11	ELECT	1uF	20.00% 50V	
C715	1-126-956-91	ELECT	0.1uF	20.00% 50V	
C716	1-126-956-91	ELECT	0.1uF	20.00% 50V	
C717	1-130-474-00	MYLAR	0.0018uF	5% 50V	
C718	1-130-474-00	MYLAR	0.0018uF	5% 50V	
C719	1-126-964-11	ELECT	10uF	20.00% 50V	
C720	1-126-947-11	ELECT	47uF	20.00% 10V	
C721	1-126-935-11	ELECT	470uF	20.00% 10V	
C722	1-161-494-00	CERAMIC	0.022uF	25V	
C723	1-128-551-11	ELECT	22uF	20.00% 25V	
C725	1-130-476-00	MYLAR	0.0027uF	5% 50V	
C727	1-161-494-00	CERAMIC	0.022uF	25V	
C728	1-126-964-11	ELECT	10uF	20.00% 50V	
C729	1-130-487-00	MYLAR	0.022uF	5% 50V	
C730	1-130-481-00	MYLAR	0.0068uF	5% 50V	
C731	1-162-282-31	CERAMIC	100PF	10% 50V	
C732	1-162-282-31	CERAMIC	100PF	10% 50V	
C733	1-162-294-31	CERAMIC	0.001uF	10% 50V	
		< CONNECTOR >			
* CN701	1-695-645-11	PLUG (CONNECTOR) 4P			
		< DIODE >			
D701	8-719-991-33	DIODE 1N4148TP			
D702	8-719-991-33	DIODE 1N4148TP			

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC701	6-700-579-01	IC AN7312			
		< TRANSISTOR >			
Q701	8-729-194-57	TRANSISTOR	2SC945TP-QP		
Q702	8-729-194-57	TRANSISTOR	2SC945TP-QP		
Q703	8-729-194-57	TRANSISTOR	2SC945TP-QP		
Q704	8-729-194-57	TRANSISTOR	2SC945TP-QP		
Q706	8-729-116-82	TRANSISTOR	2SD1616-L		
		< RESISTOR >			
R701	1-249-393-11	CARBON	10	5% 1/4W F	
R702	1-249-393-11	CARBON	10	5% 1/4W F	
R703	1-249-434-11	CARBON	27K	5% 1/4W	
R704	1-249-434-11	CARBON	27K	5% 1/4W	
R705	1-249-434-11	CARBON	27K	5% 1/4W	
R706	1-249-434-11	CARBON	27K	5% 1/4W	
R707	1-249-418-11	CARBON	1.2K	5% 1/4W F	
R708	1-249-418-11	CARBON	1.2K	5% 1/4W F	
R709	1-249-413-11	CARBON	470	5% 1/4W F	
R710	1-249-413-11	CARBON	470	5% 1/4W F	
R711	1-249-440-11	CARBON	82K	5% 1/4W	
R712	1-249-440-11	CARBON	82K	5% 1/4W	
R713	1-249-431-11	CARBON	15K	5% 1/4W	
R714	1-249-431-11	CARBON	15K	5% 1/4W	
R715	1-249-429-11	CARBON	10K	5% 1/4W	
R716	1-249-429-11	CARBON	10K	5% 1/4W	
R719	1-249-426-11	CARBON	5.6K	5% 1/4W	
R720	1-249-426-11	CARBON	5.6K	5% 1/4W	
R721	1-249-429-11	CARBON	10K	5% 1/4W	
R722	1-249-429-11	CARBON	10K	5% 1/4W	
R723	1-247-893-11	CARBON	390K	5% 1/4W	
R724	1-249-441-11	CARBON	100K	5% 1/4W	
R725	1-249-411-11	CARBON	330	5% 1/4W	
R726	1-249-437-11	CARBON	47K	5% 1/4W	
R727	1-249-430-11	CARBON	12K	5% 1/4W	
R728	1-249-437-11	CARBON	47K	5% 1/4W	
R729	1-249-437-11	CARBON	47K	5% 1/4W	
R730	1-249-437-11	CARBON	47K	5% 1/4W	
R731	1-249-425-11	CARBON	4.7K	5% 1/4W F	
R732	1-249-412-11	CARBON	390	5% 1/4W F	
R735	1-249-435-11	CARBON	33K	5% 1/4W	
R736	1-249-396-11	CARBON	18	5% 1/4W F	

CASSETTE DISPLAY

Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
SW701	1-786-225-11	SWITCH, PUSH (1 KEY) (REC/PB)	
		< COIL >	
T701	1-424-875-11	COIL (OSC)	
**********			
	A-4676-972-A	DISPLAY BOARD, COMPLETE (AEP,UK)	
	A-4729-804-A	DISPLAY BOARD, COMPLETE (US,CND)	
	A-4729-808-A	DISPLAY BOARD, COMPLETE (EXCEPT US,CND,AEP,UK)	
		**********	
	4-240-243-01	LCD LIGHT GUIDE	
	4-240-252-01	REMOTE SENSOR HOLDER	
	4-240-253-01	TIMER LED HOLDER	
	4-240-254-01	LCD BACKLITE HOLDER	
	4-240-277-01	LCD DIFFUSE SHEET	
	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
		< CAPACITOR >	
C602	1-126-514-11	ELECT 22uF 20.00% 10V	
C604	1-126-916-11	ELECT 1000uF 20.00% 6.3V	
C605	1-126-916-11	ELECT 1000uF 20.00% 6.3V	
C606	1-126-382-11	ELECT 100uF 20.00% 10V	
C613	1-162-206-31	CERAMIC 20PF 5% 50V	
C614	1-162-205-31	CERAMIC 18PF 5% 50V	
C619	1-164-159-11	CERAMIC 0.1uF 50V	
C620	1-164-159-11	CERAMIC 0.1uF 50V	
C621	1-126-382-11	ELECT 100uF 20.00% 10V	
C639	1-164-159-11	CERAMIC 0.1uF 50V	
C652	1-126-791-11	ELECT 10uF 20.00% 16V	
C654	1-161-494-00	CERAMIC 0.022uF 25V	
C664	1-164-159-11	CERAMIC 0.1uF 50V	
C665	1-164-159-11	CERAMIC 0.1uF 50V	
C666	1-164-159-11	CERAMIC 0.1uF 50V	
C667	1-164-159-11	CERAMIC 0.1uF 50V	
		< DIODE >	
D601	8-719-991-33	DIODE 1N4148TP	
D602	8-719-991-33	DIODE 1N4148TP	
D603	8-719-991-33	DIODE 1N4148TP (EXCEPT AEP, UK)	
D607	8-719-991-33	DIODE 1N4148TP	
D608	8-719-991-33	DIODE 1N4148TP	
D609	8-719-991-33	DIODE 1N4148TP	
D610	8-719-991-33	DIODE 1N4148TP	
D611	8-719-991-33	DIODE 1N4148TP	
D612	8-719-991-33	DIODE 1N4148TP	
D613	8-719-991-33	DIODE 1N4148TP	
D614	8-719-991-33	DIODE 1N4148TP	
D615	8-719-991-33	DIODE 1N4148TP	
D617	8-719-991-33	DIODE 1N4148TP	
D618	8-719-991-33	DIODE 1N4148TP (EXCEPT AEP, UK)	
D619	8-719-062-11	DIODE SEL2215S-CD (TIMER)	
D647	8-719-991-33	DIODE 1N4148TP	
D648	8-719-991-33	DIODE 1N4148TP (US, CND)	

Ref. No.	Part No.	Description	Remarks
		< IC >	
IC601	6-800-412-01	IC uPD753016AGC-F37	
IC602	8-759-009-22	IC TC4094BF	
IC603	8-759-971-11	IC PST529D	
		< COIL >	
L601	1-410-521-11	INDUCTOR 100uH	
L602	1-410-509-11	INDUCTOR 10uH	
		< LIQUID CRYSTAL DISPLAY >	
LD621	1-804-496-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< TRANSISTOR >	
Q601	8-729-194-57	TRANSISTOR 2SC945TP-QP	
Q602	8-729-194-57	TRANSISTOR 2SC945TP-QP	
Q603	8-729-194-57	TRANSISTOR 2SC945TP-QP (EXCEPT AEP, UK)	
Q604	8-729-119-76	TRANSISTOR 2SA733TP (US, CND)	
		< RESISTOR >	
R600	1-249-437-11	CARBON 47K 5% 1/4W	
R601	1-249-429-11	CARBON 10K 5% 1/4W	
R602	1-249-437-11	CARBON 47K 5% 1/4W	
R603	1-249-420-11	CARBON 1.8K 5% 1/4W	F
R604	1-249-420-11	CARBON 1.8K 5% 1/4W	F
R605	1-249-429-11	CARBON 10K 5% 1/4W	
R606	1-247-807-31	CARBON 100 5% 1/4W	
R607	1-249-437-11	CARBON 47K 5% 1/4W	
R608	1-249-437-11	CARBON 47K 5% 1/4W	
R609	1-249-437-11	CARBON 47K 5% 1/4W	
R610	1-249-429-11	CARBON 10K 5% 1/4W	
R611	1-249-429-11	CARBON 10K 5% 1/4W	
R612	1-249-429-11	CARBON 10K 5% 1/4W	
R613	1-249-429-11	CARBON 10K 5% 1/4W	
R614	1-249-422-11	CARBON 2.7K 5% 1/4W	F
R615	1-249-429-11	CARBON 10K 5% 1/4W	
R616	1-249-437-11	CARBON 47K 5% 1/4W	
R618	1-249-433-11	CARBON 22K 5% 1/4W	
R620	1-249-433-11	CARBON 22K 5% 1/4W	
R621	1-249-429-11	CARBON 10K 5% 1/4W	
R623	1-249-417-11	CARBON 1K 5% 1/4W	F
R625	1-249-417-11	CARBON 1K 5% 1/4W	F
R627	1-249-437-11	CARBON 47K 5% 1/4W	
R628	1-249-417-11	CARBON 1K 5% 1/4W	F
R629	1-249-417-11	CARBON 1K 5% 1/4W	F
R631	1-249-437-11	CARBON 47K 5% 1/4W	
R632	1-249-437-11	CARBON 47K 5% 1/4W	
R633	1-249-437-11	CARBON 47K 5% 1/4W	
R634	1-249-437-11	CARBON 47K 5% 1/4W	
R636	1-249-437-11	CARBON 47K 5% 1/4W	
R638	1-249-437-11	CARBON 47K 5% 1/4W	
R639	1-249-417-11	CARBON 1K 5% 1/4W	F
R640	1-249-417-11	CARBON 1K 5% 1/4W	F
R641	1-249-437-11	CARBON 47K 5% 1/4W	
R642	1-249-433-11	CARBON 22K 5% 1/4W	

DISPLAY **HEADPHONE** **LED** **MAIN**

Ref. No.	Part No.	Description			Remarks
R643	1-249-433-11	CARBON	22K	5%	1/4W
R644	1-249-433-11	CARBON	22K	5%	1/4W
R645	1-249-437-11	CARBON	47K	5%	1/4W
R646	1-249-437-11	CARBON	47K	5%	1/4W
R647	1-249-437-11	CARBON	47K	5%	1/4W
R657	1-249-409-11	CARBON	220	5%	1/4W F
R658	1-249-437-11	CARBON	47K	5%	1/4W
R664	1-249-417-11	CARBON	1K	5%	1/4W F
R665	1-249-429-11	CARBON	10K	5%	1/4W
R666	1-249-437-11	CARBON	47K	5%	1/4W (EXCEPT AEP, UK)
R667	1-249-437-11	CARBON	47K	5%	1/4W
R668	1-249-421-11	CARBON	2.2K	5%	1/4W F (US, CND)
R669	1-249-437-11	CARBON	47K	5%	1/4W
		< IC >			
REM601	6-600-092-01	RPM7138-V4			
		< SWITCH >			
SW601	1-570-472-11	SWITCH, KEY BOARD (I/⏻)			
SW602	1-570-472-11	SWITCH, KEY BOARD (REPEAT)			
SW603	1-570-472-11	SWITCH, KEY BOARD (SHUFFLE)			
SW604	1-570-472-11	SWITCH, KEY BOARD (TUNER MEM)			
SW605	1-570-472-11	SWITCH, KEY BOARD (PRESET -)			
SW606	1-570-472-11	SWITCH, KEY BOARD (PRESET +)			
SW607	1-554-088-00	SWITCH, KEY BOARD (▶▶ ▶▶I TUNING +)			
SW608	1-570-472-11	SWITCH, KEY BOARD (■)			
SW609	1-554-088-00	SWITCH, KEY BOARD (I◀◀ ◀◀ TUNING -)			
SW610	1-570-472-11	SWITCH, KEY BOARD (▶II)			
SW611	1-570-472-11	SWITCH, KEY BOARD (CD)			
SW612	1-570-472-11	SWITCH, KEY BOARD (TAPE)			
SW613	1-570-472-11	SWITCH, KEY BOARD (TUNER)			
SW614	1-570-472-11	SWITCH, KEY BOARD (MUSIC MENU)			
SW615	1-570-472-11	SWITCH, KEY BOARD (MEGA BASS)			
SW621	1-554-088-00	SWITCH, KEY BOARD (VOLUME -)			
SW622	1-554-088-00	SWITCH, KEY BOARD (VOLUME +)			
		< VIBRATOR >			
X602	1-795-398-11	VIBRATOR, CRYSTAL 6MHz			
**********					
	A-4676-973-A	HEADPHONE BOARD, COMPLETE			
		**********			
		< JACK >			
JK401	1-815-813-11	JACK (LARGE TYPE) (PHONES)			
		< RESISTOR >			
R501	1-249-407-11	CARBON	150	5%	1/4W F
R502	1-249-407-11	CARBON	150	5%	1/4W F
**********					

Ref. No.	Part No.	Description	Remarks
		LED BOARD, COMPLETE (included DISPLAY BOARD, COMPLETE)	
		**********	
		< DIODE >	
D1	8-719-329-10	DIODE SEL2910D (LCD BACK LIGHT)	
D2	8-719-329-10	DIODE SEL2910D (LCD BACK LIGHT)	
D3	8-719-329-10	DIODE SEL2910D (LCD BACK LIGHT)	
**********			
	A-4676-971-A	MAIN BOARD, COMPLETE (AEP,UK)	
	A-4729-806-A	MAIN BOARD, COMPLETE (EXCEPT AEP,UK)	
		**********	
	1-424-881-11	AM BAR ANT	
	4-235-969-01	BAR HOLDER	
	7-682-549-09	SCREW +B 3X10	
		< TERMINAL >	
ANT101	1-694-848-11	TERMINAL BOARD (ANT FM) (FM ANT)	
		< CAPACITOR >	
C102	1-162-282-31	CERAMIC 100PF 10% 50V	
C104	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C105	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C107	1-130-471-00	MYLAR 0.001uF 5% 50V	
C108	1-126-963-11	ELECT 4.7uF 20.00% 50V	
C109	1-102-936-00	CERAMIC 3.0PF +-0.25PF 50V	
C110	1-162-203-31	CERAMIC 15PF 5.00% 50V	
C111	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C112	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C113	1-130-483-00	MYLAR 0.01uF 5% 50V	
C114	1-130-483-00	MYLAR 0.01uF 5% 50V	
C116	1-161-494-00	CERAMIC 0.022uF 25V	
C117	1-130-481-00	MYLAR 0.0068uF 5% 50V	
C118	1-130-481-00	MYLAR 0.0068uF 5% 50V	
C119	1-126-960-11	ELECT 1uF 20.00% 50V	
C120	1-126-960-11	ELECT 1uF 20.00% 50V	
C121	1-162-290-31	CERAMIC 470PF 10% 50V	
C122	1-126-957-11	ELECT 0.22uF 20.00% 50V	
C123	1-126-959-11	ELECT 0.47uF 20.00% 50V	
C124	1-126-960-11	ELECT 1uF 20.00% 50V	
C126	1-162-306-11	CERAMIC 0.01uF 30.00% 16V	
C127	1-127-884-11	CERAMIC 0.047uF 10% 50V	
C128	1-126-935-11	ELECT 470uF 20.00% 10V	
C129	1-126-963-11	ELECT 4.7uF 20.00% 50V	
C130	1-126-964-11	ELECT 10uF 20.00% 50V	
C131	1-127-884-11	CERAMIC 0.047uF 10% 50V	
C132	1-102-518-11	CERAMIC 33PF 5.00% 50V	
C133	1-128-815-11	CERAMIC 330PF 5% 50V	
C134	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C135	1-110-342-11	MYLAR 390PF 5.00% 50V	
C136	1-162-199-31	CERAMIC 10PF 5% 50V	
C140	1-127-884-11	CERAMIC 0.047uF 10% 50V	
C144	1-161-494-00	CERAMIC 0.022uF 25V	
C145	1-162-282-31	CERAMIC 100PF 10% 50V	
C146	1-162-294-31	CERAMIC 0.001uF 10% 50V	

Ref. No.	Part No.	Description			Remarks
C147	1-162-306-11	CERAMIC	0.01uF	30.00%	16V
C148	1-126-961-11	ELECT	2.2uF	20.00%	50V
C150	1-126-935-11	ELECT	470uF	20.00%	10V
C151	1-127-888-11	CERAMIC	0.1uF	10%	50V
C152	1-127-888-11	CERAMIC	0.1uF	10%	50V
C153	1-162-206-31	CERAMIC	20PF	5%	50V
C154	1-102-518-11	CERAMIC	33PF	5.00%	50V
C155	1-102-518-11	CERAMIC	33PF	5.00%	50V
C156	1-126-947-11	ELECT	47uF	20.00%	16V
C157	1-127-888-11	CERAMIC	0.1uF	10%	50V
C161	1-127-888-11	CERAMIC	0.1uF	10%	50V
C162	1-161-494-00	CERAMIC	0.022uF		25V
C163	1-126-933-11	ELECT	100uF	20.00%	16V
C167	1-162-290-31	CERAMIC	470PF	10%	50V
C181	1-102-962-00	CERAMIC	30PF	5.00%	50V
C190	1-102-962-00	CERAMIC	30PF	5.00%	50V
C201	1-127-888-11	CERAMIC	0.1uF	10%	50V
C202	1-126-935-11	ELECT	470uF	20.00%	10V
C203	1-126-960-11	ELECT	1uF	20.00%	50V
C204	1-126-960-11	ELECT	1uF	20.00%	50V
C205	1-127-888-11	CERAMIC	0.1uF	10%	50V
C206	1-127-888-11	CERAMIC	0.1uF	10%	50V
C207	1-127-888-11	CERAMIC	0.1uF	10%	50V
C208	1-127-888-11	CERAMIC	0.1uF	10%	50V
C209	1-127-888-11	CERAMIC	0.1uF	10%	50V
C210	1-127-888-11	CERAMIC	0.1uF	10%	50V
C211	1-126-961-11	ELECT	2.2uF	20.00%	50V
C212	1-126-961-11	ELECT	2.2uF	20.00%	50V
C213	1-126-961-11	ELECT	2.2uF	20.00%	50V
C214	1-126-961-11	ELECT	2.2uF	20.00%	50V
C215	1-136-293-11	MYLAR	0.0082uF	5.00%	50V
C216	1-136-293-11	MYLAR	0.0082uF	5.00%	50V
C219	1-130-488-00	MYLAR	0.027uF	5%	50V
C220	1-130-488-00	MYLAR	0.027uF	5%	50V
C221	1-136-293-11	MYLAR	0.0082uF	5.00%	50V
C222	1-136-293-11	MYLAR	0.0082uF	5.00%	50V
C225	1-130-477-00	MYLAR	0.0033uF	5%	50V
C226	1-130-477-00	MYLAR	0.0033uF	5%	50V
C227	1-162-285-31	CERAMIC	180PF	10%	50V
C228	1-162-285-31	CERAMIC	180PF	10%	50V
C229	1-136-293-11	MYLAR	0.0082uF	5.00%	50V
C230	1-136-293-11	MYLAR	0.0082uF	5.00%	50V
C231	1-162-199-31	CERAMIC	10PF	5%	50V
C232	1-162-199-31	CERAMIC	10PF	5%	50V
C238	1-126-935-11	ELECT	470uF	20.00%	10V
C239	1-126-935-11	ELECT	470uF	20.00%	10V
C240	1-162-302-11	CERAMIC	0.0022uF	30.00%	16V
C241	1-126-963-11	ELECT	4.7uF	20.00%	50V
C242	1-126-963-11	ELECT	4.7uF	20.00%	50V
C245	1-162-294-31	CERAMIC	0.001uF	10%	50V
C246	1-162-294-31	CERAMIC	0.001uF	10%	50V
C247	1-126-956-91	ELECT	0.1uF	20.00%	50V
C248	1-126-956-91	ELECT	0.1uF	20.00%	50V
C249	1-162-302-11	CERAMIC	0.0022uF	30.00%	16V
C250	1-126-964-11	ELECT	10uF	20.00%	50V

Ref. No.	Part No.	Description			Remarks
C251	1-127-872-11	CERAMIC	4700PF	10%	50V
C301	1-130-471-00	MYLAR	0.001uF	5%	50V
C302	1-130-471-00	MYLAR	0.001uF	5%	50V
C303	1-126-947-11	ELECT	47uF	20.00%	16V
C304	1-126-947-11	ELECT	47uF	20.00%	16V
C305	1-130-497-00	MYLAR	0.15uF	5%	50V
C306	1-130-497-00	MYLAR	0.15uF	5%	50V
C307	1-104-665-11	ELECT	100uF	20.00%	25V
C308	1-104-665-11	ELECT	100uF	20.00%	25V
C309	1-126-767-11	ELECT	1000uF	20.00%	16V
C310	1-126-767-11	ELECT	1000uF	20.00%	16V
C311	1-127-888-11	CERAMIC	0.1uF	10%	50V
C313	1-126-941-11	ELECT	470uF	20.00%	25V
C314	1-104-666-11	ELECT	220uF	20.00%	25V
C315	1-126-964-11	ELECT	10uF	20.00%	50V
C317	1-161-494-00	CERAMIC	0.022uF		25V
C320	1-126-961-11	ELECT	2.2uF	20.00%	50V
C321	1-126-961-11	ELECT	2.2uF	20.00%	50V
C322	1-126-933-11	ELECT	100uF	20.00%	16V
C323	1-161-494-00	CERAMIC	0.022uF		25V
C325	1-126-964-11	ELECT	10uF	20.00%	50V
C326	1-126-933-11	ELECT	100uF	20.00%	16V
C327	1-161-494-00	CERAMIC	0.022uF		25V
C328	1-126-947-11	ELECT	47uF	20.00%	16V
C329	1-127-888-11	CERAMIC	0.1uF	10%	50V
C330	1-126-960-11	ELECT	1uF	20.00%	50V (EXCEPT AEP,UK)
C331	1-126-933-11	ELECT	100uF	20.00%	16V
C341	1-126-964-11	ELECT	10uF	20.00%	50V
C342	1-126-964-11	ELECT	10uF	20.00%	50V
C343	1-126-964-11	ELECT	10uF	20.00%	50V
C391	1-126-942-61	ELECT	1000uF	20.00%	25V
C409	1-126-944-11	ELECT	3300uF	20.00%	25V

< CONNECTOR >

*	CN101	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P
*	CN201	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
*	CN202	1-695-645-11	PLUG (CONNECTOR) 4P
*	CN203	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P
*	CN204	1-564-710-11	PIN, CONNECTOR (SMALL TYPE) 8P
*	CN301	1-565-731-11	PLUG, CONNECTOR (2.5MM) 5P
*	CN302	1-564-711-11	PIN, CONNECTOR (SMALL TYPE) 9P

< DIODE >

D101	8-719-991-33	DIODE 1N4148TP
D102	8-719-991-33	DIODE 1N4148TP
D103	8-719-070-77	DIODE SVC201SPA-M1-AC
D104	8-719-070-77	DIODE SVC201SPA-M1-AC
D105	8-719-085-35	DIODE SVC348T
D306	8-719-991-33	DIODE 1N4148TP
D307	8-719-991-33	DIODE 1N4148TP
D308	8-719-991-33	DIODE 1N4148TP
D309	8-719-991-33	DIODE 1N4148TP
D310	8-719-991-33	DIODE 1N4148TP
D311	8-719-991-33	DIODE 1N4148TP
D312	8-719-991-33	DIODE 1N4148TP
D314	8-719-991-33	DIODE 1N4148TP
D316	8-719-991-33	DIODE 1N4148TP
D317	8-719-991-33	DIODE 1N4148TP

MAIN

Ref. No.	Part No.	Description		Remarks
D331	8-719-991-33	DIODE 1N4148TP		
D332	8-719-991-33	DIODE 1N4148TP		
D333	8-719-991-33	DIODE 1N4148TP		
D334	8-719-991-33	DIODE 1N4148TP		
		< FILTER >		
F101	1-760-393-11	FILTER, CERAMIC		
F102	1-795-397-11	FILTER, CERAMIC		
F103	1-234-704-11	FILTER, BAND PASS (FM)		
		< IC >		
IC101	6-700-580-01	IC LA1823		
IC102	8-759-584-70	IC LC72131		
IC203	8-759-473-59	IC LC75392		
IC301	8-759-246-03	IC TA8229K		
		< COIL >		
L101	1-414-142-11	INDUCTOR	1uH	
L103	1-424-880-11	COIL (FM)		
L104	1-424-879-11	COIL (FM)		
L106	1-410-750-11	INDUCTOR	0.47uH	
L110	1-424-878-11	COIL (ANT)		
L143	1-414-142-11	INDUCTOR	1uH	
L301	1-410-525-11	INDUCTOR	220uH	
		< TRANSISTOR >		
Q101	8-729-231-82	TRANSISTOR	2SC1923-O	
Q102	8-729-194-57	TRANSISTOR	2SC945TP-QP	
Q104	8-729-194-57	TRANSISTOR	2SC945TP-QP	
Q116	8-729-119-76	TRANSISTOR	2SA733TP-P	
Q201	8-729-194-57	TRANSISTOR	2SC945TP-QP	
Q202	8-729-194-57	TRANSISTOR	2SC945TP-QP	
Q205	8-729-194-57	TRANSISTOR	2SC945TP-QP	
Q206	8-729-194-57	TRANSISTOR	2SC945TP-QP	
Q301	8-729-107-78	TRANSISTOR	2SC3623-LK	
Q302	8-729-107-78	TRANSISTOR	2SC3623-LK	
Q308	8-729-037-08	TRANSISTOR	KTD2058Y	
Q309	8-729-119-76	TRANSISTOR	2SA733TP-P	
Q310	8-729-194-57	TRANSISTOR	2SC945TP-QP	
Q311	8-729-194-57	TRANSISTOR	2SC945TP-QP	
Q312	8-729-116-82	TRANSISTOR	2SD1616-L	
Q313	8-729-438-33	TRANSISTOR	2SC1383-R	
Q314	8-729-194-57	TRANSISTOR	2SC945TP-QP	
		< RESISTOR >		
R101	1-249-393-11	CARBON	10 5% 1/4W F	
R102	1-249-435-11	CARBON	33K 5% 1/4W	
R103	1-249-435-11	CARBON	33K 5% 1/4W	
R104	1-249-418-11	CARBON	1.2K 5% 1/4W F	
R105	1-247-883-00	CARBON	150K 5% 1/4W	
R107	1-249-421-11	CARBON	2.2K 5% 1/4W F	
R108	1-249-417-11	CARBON	1K 5% 1/4W F	
R109	1-249-417-11	CARBON	1K 5% 1/4W F	
R112	1-247-843-11	CARBON	3.3K 5% 1/4W	
R115	1-249-437-11	CARBON	47K 5% 1/4W	

Ref. No.	Part No.	Description		Remarks
R116	1-249-437-11	CARBON	47K 5% 1/4W	
R117	1-249-441-11	CARBON	100K 5% 1/4W	
R118	1-247-843-11	CARBON	3.3K 5% 1/4W	
R120	1-249-429-11	CARBON	10K 5% 1/4W	
R121	1-247-883-00	CARBON	150K 5% 1/4W	
R123	1-247-903-00	CARBON	1M 5% 1/4W	
R124	1-249-429-11	CARBON	10K 5% 1/4W	
R126	1-249-402-11	CARBON	56 5% 1/4W F	
R131	1-249-441-11	CARBON	100K 5% 1/4W	
R134	1-249-437-11	CARBON	47K 5% 1/4W	
R135	1-249-425-11	CARBON	4.7K 5% 1/4W F	
R136	1-249-427-11	CARBON	6.8K 5% 1/4W F	
R139	1-249-410-11	CARBON	270 5% 1/4W F	
R144	1-249-437-11	CARBON	47K 5% 1/4W	
R145	1-249-425-11	CARBON	4.7K 5% 1/4W F	
R146	1-249-417-11	CARBON	1K 5% 1/4W F	
R147	1-249-421-11	CARBON	2.2K 5% 1/4W F	
R148	1-249-426-11	CARBON	5.6K 5% 1/4W	
R150	1-249-417-11	CARBON	1K 5% 1/4W F	
R151	1-249-415-11	CARBON	680 5% 1/4W F	
R152	1-249-437-11	CARBON	47K 5% 1/4W	
R155	1-249-441-11	CARBON	100K 5% 1/4W	
R157	1-249-440-11	CARBON	82K 5% 1/4W	
R158	1-249-429-11	CARBON	10K 5% 1/4W	
R160	1-249-428-11	CARBON	8.2K 5% 1/4W F	
R166	1-249-437-11	CARBON	47K 5% 1/4W	
R168	1-249-427-11	CARBON	6.8K 5% 1/4W F	
R169	1-249-415-11	CARBON	680 5% 1/4W F	
R201	1-249-409-11	CARBON	220 5% 1/4W F	
R202	1-249-429-11	CARBON	10K 5% 1/4W	
R203	1-249-441-11	CARBON	100K 5% 1/4W	
R204	1-249-441-11	CARBON	100K 5% 1/4W	
R205	1-249-417-11	CARBON	1K 5% 1/4W F	
R206	1-249-417-11	CARBON	1K 5% 1/4W F	
R208	1-249-417-11	CARBON	1K 5% 1/4W F	
R209	1-249-435-11	CARBON	33K 5% 1/4W	
R210	1-249-424-11	CARBON	3.9K 5% 1/4W F	
R211	1-249-424-11	CARBON	3.9K 5% 1/4W F	
R212	1-249-435-11	CARBON	33K 5% 1/4W	
R213	1-249-434-11	CARBON	27K 5% 1/4W	
R214	1-249-434-11	CARBON	27K 5% 1/4W	
R215	1-249-426-11	CARBON	5.6K 5% 1/4W	
R216	1-249-426-11	CARBON	5.6K 5% 1/4W	
R219	1-249-428-11	CARBON	8.2K 5% 1/4W F	
R220	1-249-428-11	CARBON	8.2K 5% 1/4W F	
R223	1-249-429-11	CARBON	10K 5% 1/4W	
R224	1-249-429-11	CARBON	10K 5% 1/4W	
R225	1-249-434-11	CARBON	27K 5% 1/4W	
R226	1-249-434-11	CARBON	27K 5% 1/4W	
R227	1-249-434-11	CARBON	27K 5% 1/4W	
R228	1-249-434-11	CARBON	27K 5% 1/4W	
R229	1-249-433-11	CARBON	22K 5% 1/4W	
R230	1-249-433-11	CARBON	22K 5% 1/4W	
R231	1-249-440-11	CARBON	82K 5% 1/4W	
R232	1-249-440-11	CARBON	82K 5% 1/4W	

Ref. No.	Part No.	Description			Remarks
R233	1-249-437-11	CARBON	47K	5%	1/4W
R234	1-249-427-11	CARBON	6.8K	5%	1/4W F
R239	1-249-428-11	CARBON	8.2K	5%	1/4W F
R240	1-249-428-11	CARBON	8.2K	5%	1/4W F
R241	1-249-393-11	CARBON	10	5%	1/4W F
R242	1-247-843-11	CARBON	3.3K	5%	1/4W
R243	1-247-843-11	CARBON	3.3K	5%	1/4W
R245	1-249-427-11	CARBON	6.8K	5%	1/4W F
R246	1-249-437-11	CARBON	47K	5%	1/4W
R247	1-249-421-11	CARBON	2.2K	5%	1/4W F
R248	1-249-421-11	CARBON	2.2K	5%	1/4W F
R249	1-249-429-11	CARBON	10K	5%	1/4W
R250	1-249-429-11	CARBON	10K	5%	1/4W
R251	1-249-437-11	CARBON	47K	5%	1/4W
R252	1-249-437-11	CARBON	47K	5%	1/4W
R253	1-249-441-11	CARBON	100K	5%	1/4W
R254	1-249-429-11	CARBON	10K	5%	1/4W
R255	1-249-429-11	CARBON	10K	5%	1/4W
R256	1-249-429-11	CARBON	10K	5%	1/4W
R257	1-249-417-11	CARBON	1K	5%	1/4W F
R258	1-249-429-11	CARBON	10K	5%	1/4W
R264	1-249-422-11	CARBON	2.7K	5%	1/4W F
R265	1-249-422-11	CARBON	2.7K	5%	1/4W F
R266	1-249-429-11	CARBON	10K	5%	1/4W
R267	1-249-429-11	CARBON	10K	5%	1/4W
R268	1-249-429-11	CARBON	10K	5%	1/4W
R269	1-249-417-11	CARBON	1K	5%	1/4W F
R301	1-249-437-11	CARBON	47K	5%	1/4W
R302	1-249-437-11	CARBON	47K	5%	1/4W
R303	1-249-425-11	CARBON	4.7K	5%	1/4W F
R304	1-249-425-11	CARBON	4.7K	5%	1/4W F
R306	1-249-426-11	CARBON	5.6K	5%	1/4W
R308	1-249-410-11	CARBON	270	5%	1/4W F
R309	1-249-410-11	CARBON	270	5%	1/4W F
R310	1-249-385-11	CARBON	2.2	5%	1/6W F
R311	1-249-385-11	CARBON	2.2	5%	1/6W F
R312	1-249-398-11	CARBON	27	5%	1/4W F
R313	1-247-791-11	CARBON	22	5%	1/4W (EXCEPT AEP,UK)
R318	1-249-399-11	CARBON	33	5%	1/4W F
R320	1-249-437-11	CARBON	47K	5%	1/4W
R321	1-249-413-11	CARBON	470	5%	1/4W F
R322	1-249-441-11	CARBON	100K	5%	1/4W
R323	1-249-425-11	CARBON	4.7K	5%	1/4W F
R324	1-249-441-11	CARBON	100K	5%	1/4W
R325	1-249-441-11	CARBON	100K	5%	1/4W
R327	1-249-416-11	CARBON	820	5%	1/4W F
R328	1-249-429-11	CARBON	10K	5%	1/4W
R329	1-249-409-11	CARBON	220	5%	1/4W F
R330	1-249-409-11	CARBON	220	5%	1/4W F
R331	1-249-429-11	CARBON	10K	5%	1/4W
R333	1-260-064-11	CARBON	1	5%	1/2W
R334	1-249-437-11	CARBON	47K	5%	1/4W
R341	1-249-429-11	CARBON	10K	5%	1/4W
R342	1-249-429-11	CARBON	10K	5%	1/4W
R343	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R344	1-249-421-11	CARBON	2.2K	5%	1/4W F
R345	1-249-402-11	CARBON	56	5%	1/4W (EXCEPT AEP,UK)
R346	1-249-402-11	CARBON	56	5%	1/4W (EXCEPT AEP,UK)
		< TERMINAL >			
SPK301	1-537-238-11	TERMINAL BOARD (SPEAKER)			
		< SWITCH >			
SW301	1-786-229-11	SWITCH, SLIDE (AM FREQ STEP) (EXCEPT AEP, UK)			
		< COIL >			
T102	1-424-877-11	COIL (AM OSC)			
T103	1-424-876-11	COIL (AM)			
		< TRIMMER >			
TC101	1-141-304-21	CAP, TRIMMER	10PF		
TC102	1-141-227-00	CAP, TRIMMER	20PF		
		< DISCRIMINATOR/VIBRATOR >			
X101	1-795-396-11	DISCRIMINATOR, CERAMIC 10.7MHz			
X102	1-577-126-11	VIBRATOR, CRYSTAL 7.2MHz			
		< DIODE >			
ZD302	8-719-929-15	DIODE MTZJ-T-72-9.1B			
ZD304	8-719-110-17	DIODE MTZN-T-72-10B			
ZD305	8-719-109-97	DIODE MTZJ-T-72-6.8B			
**********					
	A-4676-975-A	POWER BOARD, COMPLETE (EXCEPT US,CND,MX)			
	A-4729-805-A	POWER BOARD, COMPLETE (US,CND,MX)			
		**********			
	1-533-217-31	HOLDER, FUSE			
		< CAPACITOR >			
C401	1-104-665-11	ELECT	100uF	20.00%	10V
C402	1-102-129-00	CERAMIC	10000PF	10%	50V
C403	1-126-935-11	ELECT	470uF	20.00%	16V
C404	1-102-129-00	CERAMIC	10000PF	10%	50V
C405	1-104-665-11	ELECT	100uF	20.00%	25V
C406	1-102-129-00	CERAMIC	10000PF	10%	50V
C407	1-104-665-11	ELECT	100uF	20.00%	25V
C408	1-102-129-00	CERAMIC	10000PF	10%	50V
C409	1-126-960-11	ELECT	1uF	20.00%	50V
⚠C410	1-117-698-11	CERAMIC	680PF	10.00%	250V
C411	1-127-888-21	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
* CN402	1-573-457-11	PLUG, CONNECTOR 6P			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER

Ref. No.	Part No.	Description	Remarks
		< DIODE >	
D401	8-719-077-63	DIODE 1N5402	
D402	8-719-077-63	DIODE 1N5402	
D403	8-719-077-63	DIODE 1N5402	
D404	8-719-077-63	DIODE 1N5402	
D405	8-719-200-02	DIODE 1N4001	
D406	8-719-200-02	DIODE 1N4001	
D407	8-719-200-02	DIODE 1N4001	
D408	8-719-200-02	DIODE 1N4001	
D409	8-719-991-33	DIODE 1N4148TP	
D411	8-719-200-02	DIODE 1N4001	
D412	8-719-200-02	DIODE 1N4001	
D413	8-719-200-02	DIODE 1N4001	
D414	8-719-200-02	DIODE 1N4001	
		< FUSE >	
⚠F401	1-533-470-11	FUSE, GLASS TUBE (DIA. 5) T3.15AL/250V (EXCEPT US, CND, MX)	
⚠F401	1-533-690-11	FUSE, GLASS SYLINDRICAL (DIA. 5) 3.15A/125V (US, CND, MX)	
⚠F402	1-533-296-11	FUSE, GLASS SYLINDRICAL (DIA. 5) 2A/125V (US, CND, MX)	
⚠F402	1-533-468-11	FUSE, GLASS TUBE (DIA. 5) T2AL/250V (EXCEPT US, CND, MX)	
		< TRANSISTOR >	
Q401	8-729-820-24	TRANSISTOR 2SC3330-T-TP	
Q402	8-729-119-76	TRANSISTOR 2SA733TP-P	
		< RESISTOR >	
R401	1-249-408-11	CARBON 180 5% 1/4W (US,CND,MX)	
R401	1-249-442-11	CARBON 510 5% 1/4W (EXCEPT US,CND,MX)	
R402	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R403	1-247-885-00	CARBON 180K 5% 1/4W (US,CND,MX)	
R403	1-249-441-11	CARBON 100K 5% 1/4W (EXCEPT US,CND,MX)	
R404	1-249-404-00	CARBON 82 5% 1/4W F (EXCEPT US,CND,MX)	
R404	1-249-393-11	CARBON 10 5% 1/4W (US,CND,MX)	
R405	1-249-441-11	CARBON 100K 5% 1/4W	
⚠R406	1-216-478-11	METAL OXIDE 390 5% 3W	
		< RELAY >	
⚠RL401	1-755-446-11	RELAY 120V (EXCEPT US,CND,MX)	
⚠RL401	1-755-448-11	RELAY 250V (US,CND,MX)	
		< TRANSFORMER >	
⚠TR402	1-437-815-11	TRANSFORMER, POWER (EXCEPT US, CND, MX)	
⚠TR402	1-437-817-11	TRANSFORMER, POWER (US, CND MX)	
		< DIODE >	
ZD401	8-719-109-97	DIODE MTZJ-T-72-6.8B	
**********			

Ref. No.	Part No.	Description	Remarks
		MISCELLANEOUS	
		**********	
3	1-500-712-11	CORE, FERRITE (AEP,UK)	
⚠6	1-555-750-00	CORD, POWER (AEP,E51,MY,SP)	
⚠6	1-696-535-11	CORD, POWER (UK)	
⚠6	1-696-966-31	CORD, POWER (AUS)	
⚠6	1-783-525-31	CORD, POWER (MX)	
⚠6	1-783-820-11	CORD, POWER (US,CND)	
⚠6	1-783-941-51	CORD, POWER (AR)	
8	1-823-170-11	CORD (WITH CONNECTOR) (FM ANT)	
80	1-796-190-01	DECK, MECH	
157	1-471-144-11	MAGNET	
166	1-796-189-11	MECH, CD	
SW600	1-692-960-21	SWITCH, PUSH (1 KEY) (OPEN/CLOSE)	
⚠TR401	1-437-816-11	TRANSFORMER, POWER (EXCEPT US, CND, MX)	
⚠TR401	1-437-818-11	TRANSFORMER, POWER (US, CND, MX)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.